A

U.S. Department of Agriculture
Forest Service
General Technical Report SO-22

EXA
COMMONWEALTH INST
OF ENTOMOLOG
LIBRARY
20 FEB 1981
USA

Selected Bibliography of the Clearwing Borers (Sesiidae) of the United States and Canada

J. D. SOLOMON
AND
M. E. DIX

Southern Forest Experiment Station

SUMMARY

The larvae of Sesiidae bore in trunks, bark, stems, or roots of forest trees, shade and ornamental trees, fruit trees, vines, and other crops. Often they do considerable damage. Over the years much has been published on the clearwing borers; this bibliography attempts to cover the major works. The compilation is in alphabetical order by author and indexed to species to aid those interested in the literature concerning particular species.

1979

Selected Bibliography of the Clearwing Borers (Sesiidae) of the United States and Canada

J. D. SOLOMON AND M. E. DIX

LAV
A 852984

Members of the family Sesiidae are generally referred to as clearwing borers because most bear a striking resemblance to bees and wasps and because the larvae bore in trunks, bark, stems, or roots of trees, shrubs, vines, and other plants.

Many species, because of the extensive damage they do by mining and tunneling, are important pests. Species in the genera *Paranthrene Hubner, Podosesia Moschler, Synanthedon Hubner,* and *Sesia* Fab. are particularly known for causing defects and degrade in timber species, mortality in shelterbelt and ornamental plantings, and cull in nurseries. If not controlled, *Synanthedon exitiosa* (Say) and *S. pictipes* (G. & R.) can destroy entire orchards of fruit trees. Several species in the genera *Vitacea* Engelhardt, *Melittia* Hubner, and *Pennsetia* Dehne cause serious losses to various crops.

Over the years, considerable material has been printed on the clearwing borers. Holloway, Childers, and Gentry (311) recently published a bibliography on *Synanthedon pictipes* and *S. exitiosa* containing 163 references. Duckworth and Eichlin (193) included numerous references in their recent paper on classification.

The selective compilation presented here is an outgrowth of research on the *Podosesia* borers in ash and *Paranthrene* borers in oaks and cottonwood. We made an attempt to include the major papers on Sesiidae, but some undoubtedly were missed. Although numerous short papers and notes were included, many were intentionally omitted.

The initial sources of references were our files and the various entomological, forestry, and agricultural periodicals. Other important sources were Biological Abstracts, Forestry Abstracts, Review of Applied Entomology, and the National Agricultural Library's reference service.

The bibliography is in alphabetical order by authors. An index to species and their synonyms is provided to aid those interested in pursuing the literature on particular species. The scientific names and the generic and specific combinations given with the citations are as they were presented in the particular reference. Refer to the species index for the current usage. The currently recognized valid species as presented by Duckworth and Eichlin (193) were used except that a new species later described by Purrington and Nielson (452) and one described by Duckworth and Eichlin (194) are included.

This bibliography is intended for use by entomologists, foresters, horticulturists, pest control operators, and others who wish to refer to the literature on the clearwing borers in the family Sesiidae.

Anyone beginning a study of the Sesiidae should see the papers by Beutenmuller, Duckworth and Eichlin, Edwards, Engelhardt, MacKay, and Riley.

J. D. Solomon is Research Entomologist, Forest Service — USDA, Southern Forest Experiment Station, Stoneville, Miss. M. E. Dix is Research Entomologist, Forest Service — USDA, Rocky Mountain Forest and Range Experiment Station, Bottineau, North Dakota.

1. Abrahamson, L. P. and F. I. McCracken. 1972. **Insect and disease pests of southern hardwoods.** In Proc. Southeast. Hardwood Symp. (1971), p. 80-89. U.S. Dep. Agric. For. Serv., Southeast. Area, State and Priv. For., Atlanta, Ga.
2. Abrahamson, L. P., R. C. Morris and N. A. Overgaard. 1977. **Control of certain insect pests in cottonwood nurseries with the systemic insecticide carbofuran.** J. Econ. Entomol. 70:89-91.
3. Abrahamson, L. P. and L. Newsome. 1972. **Tree age influences trunk borer infestations in cottonwood plantations.** For. Sci. 18:231-232.
4. Aeyers, G. and A. J. Howitt. 1963. **A new pest of blueberries in Michigan,** p. 87-88. Proc. 18th Entomol. Soc. Am., N. Cent. Branch Meet.
5. Aldrich, J. M. 1892. **Notes of the season from South Dakota.** Insect Life 4:67-78.
6. All, J. N. and J. D. Dutcher. 1977. **Subsurface and surface insecticide applications to control subterranean larvae of the grape root borer.** J. Econ. Entomol. 70:649-652.
7. Anderson, R. F. 1960. **Forest and shade tree entomology,** p. 262-264. Wiley & Sons, N.Y., 428 p.
8. Andison, H. 1948. **Insects of the season in 1947.** Can. Insect Pest Rev. 26(1):9, 69.
9. Andison, H. 1950. **Insects of the season in 1949.** Can. Insect Pest Rev. 28(1):3, 33, 51, 66-67.
10. Andison, H. 1951. **Fruit and ornamental insects of the season in 1950.** Can. Insect Pest Rev. 29(1):10, 42, 76.
11. Anonymous. 1917. **Asphaltum for peach borers.** The Rural New Yorker 76:404.
12. Anonymous. 1922. **Experiments on control of borers and leaf curl of peaches,** p. 1-7. N.Y. State Agric. Ext. Circ. 64.
13. Anonymous. 1923. **Peach borer and the paradichlorobenzene treatment,** p. 1-4. Ky. Agric. Ext. Circ. 159.
14. Anonymous. 1926. **Squash vine borer.** The Rural New Yorker 85:928.
15. Anonymous. 1931. **Raspberry crown borer.** Am. Agric. 28:68.
16. Anonymous. 1938. **Spraying program and pest control for fruit crops,** p. 49. Ohio Agric. Exp. Stn. Bull. 128, 52 p.
17. Anonymous. 1939. **Orchard and Garden: Control strawberry pests by prevention.** Wash. Farmer Biweekly 64:86.
18. Anonymous. 1946. **Paradichlorobenzene gives best control of peach borer when used in fall.** Agric. Newsletter 14:75-76.
19. Anonymous. 1947. **Spraying program and pest control for fruit crops,** p. 59-60. Ohio Agric. Exp. Stn. Bull. 670.
20. Anonymous. 1951. **Pest control for Indiana fruit,** p. 22-23. Purdue Univ. Agric. Ext. Bull. 310.
21. Anonymous. 1953. **Control of peach tree borers,** p. 52-55. Ohio Agric. Ext. Serv. Bull. 2.
22. Anonymous. 1961. **A poplar clearwing (***Paranthrene tabaniformis* **Rott.).** Coop. Econ. Insect Rep. 11(6):63-64.
23. Anthon, E. W. 1950. **How to control the peach tree borer.** Better Fruit 44(8):6, 8.
24. Anthon, E. W. 1955. **The peach tree borer.** Wash. Agric. Exp. Stn., Stn. Circ. 77 rev. 4 p.
25. Antonio, A. Q., J. R. McLaughlin, N. C. Leppla and C. W. Green. 1975. **Culturing the lesser peach tree borer.** J. Econ. Entomol. 68:309-310.
26. Appleby, J. E. 1973. **Observations on the life history and control of the lilac borer.** J. Econ. Entomol. 66:248-249.
27. Armstrong, T. 1940. **The life history of the peach tree borer,** *Synanthedon exitiosa* **Say, in Ontario.** Sci. Agric. 20:557-565.
28. Armstrong, T. and H. R. Boyce. 1958. **Control of borers attacking peach trees in Ontario.** Can. Dep. Agric. Publ. 1039, 6 p.
29. Attwood, V. G. and W. D. Wylie. 1963. **Grape root borer threatens vineyards.** Ark. Farm Res. 12:6.
30. Baerg, W. J. 1924. **Destroying peach tree borers with paradichlorobenzene.** Ark. Agric. Ext. Circ. 169, 2 p.
31. Baerg, W. J. and C. Lincoln. 1944. **Control by fumigation.** Ark. Agric. Coll. Ext. Circ. 169, 5 p.
32. Baerg, W. J. and C. Lincoln. 1947. **Control peach tree borers (***Sanninoidea exitiosa***).** Ark. Agric. Ext. Leafl. 91, 6 p.
33. Bailey, J. G. 1879. **The natural history of** *Aegeria pictipes.* N. Am. Entomol. 1:17-21.
34. Bailey, J. S. 1933. **Peach growing in Massachusetts.** Mass. Ext. Leafl. 146, 15 p.
35. Baker, W. L. 1972. **Eastern forest insects,** p. 397-402. U.S. Dep. Agric. Misc. Publ. 1175, 642 p.
36. Bambara, S. B. and H. H. Neunzig. 1977. **Descriptions of immature stages of the grape root borer,** *Vitacea polistiformis* **(Lepidoptera:Sesiidae).** Ann. Entomol. Soc. Am. 70:871-875.
37. Barnes, G. and J. E. Roberts. 1966. **Chemical control of** *Sanninoidea exitiosa,* **pest of peach and plum trees.** Ark. Univ. Ext. Leafl. 91, 4 p.
38. Barnes, P. T. 1916. **The control of insects injurious to plums and cherries,** p. 38-44. Proc. Penn. State Hortic. Assoc. for 1916, 57th Annu. Meet.
39. Barnes, W. and F. H. Benjamin. 1925. **Change of a preoccupied name (Lepidoptera:Aegeriidae).** Proc. Entomol. Soc. Wash. 27:14.
40. Barnes, W. and A. W. Lindsey. 1922. **Descriptions of two new species of Aegeriidae (Lep.).** Brooklyn Entomol. Soc. Bull. 18:122-123.
41. Barss, H. P. and A. L. Lovett. 1924. **Orchard spray program for Oregon,** p. 7. Oreg. Agric. Coll. Ext. Bull. 369, 19 p.
42. Bartel, L. 1929. **Crystals kill root borers.** Oreg. Farmer Biweekly 49:51.
43. Beal, J. A., W. Haliburton and F. B. Knight. 1952. **Forest insects of the southeast: with special reference to species occurring in the Piedmont Plateau of North Carolina,** p. 57-58, 67-69, Duke Univ. School For. Bull. 14.
44. Becker, G. G. 1917. **Notes on the peach tree borer (***Sanninoidea exitiosa***).** J. Econ. Entomol. 10:49-59.
45. Becker, G. G. 1917. **The control of the round-headed apple tree borer.** J. Econ. Entomol. 10:66-71.
46. Becker, G. G. 1918. **The peach tree borer,** *Sanninoidea exitiosa* **Say.** Ark. Agric. Exp. Stn. Tech. Bull. 150, 32 p.
47. Becker, G. G. 1918. **The round-headed apple-tree borer,** p. 25. Ark. Agric. Exp. Stn. Tech. Bull. 146, 62 p.
48. Behrens, J. 1889. **Some Texas, Arizona and California moths.** Can. Entomol. 21:161-163.
49. Bell, J. T. and E. B. Reed. 1881. **The maple-tree borer.** Can. Entomol. 13:236.
50. Beroza, M. 1976. **Control of the gypsy moth and other insects with behavior controlling chemicals,** p. 99-118. Am. Chem. Soc. Symp. Ser. 23, 192 p.

51. Besse, R. S. 1937. **Effect of agricultural and home economics research on Oregon's Agricultural Progress,** p. 40-41. Oreg. State Agric. Exp. Stn., Stn. Bull. 350, 85 p.
52. Bethune, C. J. S. 1873. **Grape vine borer.** Can. Entomol. 5:218-219.
53. Bethune, C. J. S. 1888. **Remedies for noxious insects,** p. 54-55. Entomol. Soc. Ont. 18th Annu. Rep. for 1887.
54. Beutenmuller, W. 1890. **Catalogue of the Lepidoptera found within fifty miles of New York City, with their food plants.** Ann. N.Y. Acad. Sci. 5:204-206.
55. Beutenmuller, W. 1892. **List of types of Lepidoptera in the Edwards collection of insects.** Bull. Am. Mus. Nat. Hist. 4:167-198.
56. Beutenmuller, W. 1893. **Notes on some North American moths, with descriptions of new species.** Bull. Am. Mus. Nat. Hist. 5:19-26.
57. Beutenmuller, W. 1894. **Studies of some North American moths.** Bull. Am. Mus. Nat. Hist. 6:84-98, 172, 365-368.
58. Beutenmuller, W. 1896. **Critical review of the Sesiidae found in America north of Mexico.** Bull. Am. Mus. Nat. Hist. 8:111-148.
59. Beutenmuller, W. 1897. **Food habits of North American Sesiidae.** Bull. Am. Mus. Nat. Hist. 9:217-221.
60. Beutenmuller, W. 1897. **Notes on North American Sesiidae, with descriptions of new species.** Bull. Am. Mus. Nat. Hist. 9:213-216.
61. Beutenmuller, W. 1898. **Three new species of Sesiidae.** J. N. Y. Entomol. Soc. 6:240-241.
62. Beutenmuller, W. 1899. **Notes on the descriptions of some new species of North American Lepidoptera.** J. N. Y. Entomol. Soc. 7:254-256.
63. Beutenmuller, W. 1899. **On some species of North American Lepidoptera.** Bull. Am. Mus. Nat. Hist. 12:157-160.
64. Beutenmuller, W. 1899. **Synopsis of the species of** *Melittia* **of America, north of Mexico, with description of a new species.** Bull. Am. Mus. Nat. Hist. 12:149-151.
65. Beutenmuller, W. 1900. **A new sesiid from Alaska.** Can. Entomol. 32:208.
66. Beutenmuller, W. 1900. **Note on** *Sesia arctica.* Can. Entomol. 32:277-278.
67. Beutenmuller, W. 1900. **Synopsis of food habits of the larvae of the Sesiidae.** Can. Entomol. 32:301-303.
68. Beutenmuller, W. 1900. **Two new Sesiidae.** J. N. Y. Entomol. Soc. 8:254-256.
69. Beutenmuller, W. 1901. **Monograph of the Sesiidae of America, north of Mexico.** Mem. Am. Mus. Nat. Hist. 1:217-352.
70. Beutenmuller, W. 1902. **Description of a new sesiid.** J. N. Y. Entomol. Soc. 10:126.
71. Beutenmuller, W. 1909. **Descriptions of three new Sesiidae.** Entomol. News 20:82-84.
72. Beutenmuller, W. 1916. **Descriptions of a new sesiid.** Can. Entomol. 48:372.
73. Bird, R. D. and D. A. V. Mitchener. 1946. **Insects of the season 1945 in Manitoba,** p. 71. Can. Insect Pest Rev. 24, 73 p.
74. Bissell, T. L. and M. Dupree. 1947. **Vegetable insect pests.** Ga. Agric. Exp. Stn. Bull. 254, 21 p.
75. Blake M. A. 1907. **Sand cherry and American plum on peach stocks to control the peach borer,** p. 128-130. N. J. Agric. Exp. Stn., 28th Annu. Rep.
76. Blake, M. A. and C. H. Connors. 1914. **Peach borer observations at Vineland,** p. 75-80. N. J. Agric. Exp. Stn., 35th Annu. Rep.
77. Blakeslee, E. B. 1915. **A mechanical protector for preventing injury by the peach borer.** J. Econ. Entomol. 8:103-107.
78. Blakeslee, E. B. 1919. **Use of toxic gases as a possible means of control of the peach tree borer.** U.S. Dep. Agric. Bull. 796, 23 p.
79. Bobb, M. L. 1943. **Ethylene dichloride emulsion and paradichlorobenzene crystals in peach tree borer control.** Va. Agric. Exp. Stn. Bull. 347, 11 p.
80. Bobb, M. L. 1947. **New insecticides for peach insects.** The Mountaineer Grower 17:16-24.
81. Bobb, M. L. 1949. **Sprays for control of the peach tree borer.** J. Econ. Entomol. 42:343-345.
82. Bobb, M. L. 1957. **Life history of the lesser peach tree borer in Virginia.** Va. J. Sci. 8:297.
83. Bobb, M. L. 1959. **The biology of the lesser peach tree borer in Virginia.** J. Econ. Entomol. 52:634-636.
84. Bobb, M. L. 1961. **Control of the lesser peach tree borer in Virginia.** J. Econ. Entomol. 54:799-800.
85. Bobb, M. L. 1966. **Effectiveness of insecticides for control of the lesser peach tree borer.** J. Econ. Entomol. 59:971-973.
86. Bobb, M. L. 1969. **Insecticides for control of the lesser peach tree borer, with notes on the peach tree borer.** J. Econ. Entomol. 62:1447-1448.
87. Borror, D. J. and D. M. DeLong. 1954. **An introduction to the study of insects,** p. 537-538. Holt, Rinehart and Winston, N.Y., 1030 p.
88. Bowles, G. J. 1871. **Quebec currant worms.** Can. Entomol. 3:8-10.
89. Boyce, H. R. 1959. **Chemical control of the lesser peach tree borer,** *Synanthedon pictipes* **(G. & R.) (Lepidoptera:Aegeriidae), in Essex County, Ontario.** Can. J. Plant Sci. 39:75-79.
90. Boyce, H. R. 1962. **Peach tree borers (Lepidoptera:Aegeriidae) in Ontario,** Proc. Entomol. Soc. Ont. 92:45-58.
91. Boyce, H. R. 1965. **Note on bivoltinism in the lesser peach tree borer,** *Synanthedon pictipes* **(G. & R.).** Proc. Entomol. Soc. Ont. 95:139.
92. Boyce, H. R. and G. M. Weaver. 1965. **Preliminary evidence of host resistance to the peach tree borer,** *Sanninoidea exitiosa.* Can. J. Plant Sci. 45:293-294.
93. Boyd, W. M. 1945. **Injurious insects of New Jersey nurseries,** p. 134-136. N. J. Dep. Agric. Circ. 355.
94. Boyd, W. M. 1953. **Insects of importance in New Jersey nurseries,** p. 162-166. N. J. Dep. Agric. Circ. 390.
95. Breakey, E. P. 1963. **Biology and control of the raspberry crown borer,** *Bembecia marginata* **(Harris).** Wash. Agric. Exp. Stn. Tech. Bull. 39, 14 p.
96. Brimley, C. S. 1938. **The insects of North Carolina,** p. 301-305. N. C. Dep. Agric. Div. Entomol., Raleigh.
97. Britton, W. E. 1923. **The rhododendron borer,** p. 347-351. Conn. Agric. Exp. Stn. Bull. 247.
98. Britton, W. E. 1933. **Plant pest handbook for Connecticut. I. Insects,** p. 139, 155-156, 164. Conn. Agric. Exp. Stn. Bull. 344.
99. Britton, W. E. and M. P. Zappe. 1927. **Some insect pests of nursery stock in Connecticut,** p. 132-134. Conn. State Agric. Exp. Stn. Bull. 292.

100. Brooks, F. E. 1907. **The grapevine root-borer,** p. 16-30. West Va. Agric. Exp. Stn. Bull. 110.
101. Brooks, F. E. 1920. **Pear borer.** U.S. Dep. Agric. Bull. 887, 8 p.
102. Brooks, L. E. and C. H. McDowell. 1934. **The home garden and orchard in the Wichita Valley,** p. 21. Tex. Agric. Exp. Stn. Circ. 70, 26 p.
103. Brown, E. E. 1949. **The peach and prune root borer and its control in the Milton-Freewater area.** Proc. Oreg. State Hortic. Soc. 41:189-192.
104. Brown, E. E. 1952. **Control of western peach tree borer in N. E. Oregon.** Oreg. Agric. Exp. Stn. Bull. 513, 18 p.
105. Brown, L. R. and C. O. Eads. 1965. **A technical study of insects affecting the sycamore tree in southern California,** p. 30-33. Calif. Agric. Exp. Stn. Bull. 818, 38 p.
106. Brown, L. R. and C. O. Eads. 1967. **Insects affecting ornamental conifers in southern California,** p. 38-40. Calif. Agric. Exp. Stn. Bull. 834, 72 p.
107. Bruce, W. N. and O. E. Tauber. 1945. **Trials with DDT on potatoes, cabbage, and squash.** J. Econ. Entomol. 38:439-441.
108. Bruner, L. 1891. **Report of the entomologist,** p. 196-200. Neb. Hortic. Soc. Annu. Rep. for 1891.
109. Bruner, L. 1895. **Insect enemies of the apple-tree and its fruit,** p. 154-224. Neb. State Hortic. Rep. for 1894.
110. Brunner, J. 1914. **The Sequoia pitch moth, a menace to pine in western Montana.** U.S. Dep. Agric. Bull. 111, 11 p.
111. Brunner, J. 1915. **Douglas fir pitch moth.** U.S. Dep. Agric. Bull. 255, 23 p.
112. Brunner, J. 1915. **The Zimmerman pine moth.** U.S. Dep. Agric. Bull. 295, 12 p.
113. Burdette, R. C. 1935. **Derris dusts and oil-lead arsenate spray for squash vine borer.** J. Econ. Entomol. 28:229-231.
114. Buriff, C. R. and D. G. Davis. 1974. **A modified wing trap for capturing adult male lesser peach tree borers.** Environ. Entomol. 3:191-192.
115. Buriff, C. R., R. E. Dolphin, T. E. Mouzin and D. F. Ralston. 1974. **Lesser peachtree borers: Response of males to wing and carton traps baited with one or five virgin females.** Environ. Entomol. 3:73-74.
116. Burke, H. E. 1933. **Some important insect enemies of shade trees in central and southern California,** p. 49-59. *In* Proc. 9th Natl. Shade Tree Conf.
117. Burnside, J. A. and T. T. Y. Wong. 1973. **Lesser peachtree borer: A method of extracting pupae from rearing trays.** J. Econ. Entomol. 66:247-248.
118. Busck, A. 1913. **Two microlepidoptera injurious to chestnut.** Proc. Entomol. Soc. Wash. 15:102-104.
119. Busck, A. 1914. **Descriptions of new microlepidoptera of forest trees.** Proc. Entomol. Soc. Wash. 16:143-150.
120. Busck, A. 1915. **Descriptions of new North American microlepidoptera.** Proc. Entomol. Soc. Wash. 17:79-94.
121. Butler, A. G. 1874. **Notes on the Aegeriidae with descriptions of new genera and species.** Annu. Mag. Nat. Hist. 14:407-411.
122. Butler, H. G. 1930. **Observations on the biology of the peach borer in Roane County, Tenn., Harriman, Tenn. 1930.** J. Econ. Entomol. 24:851-854.
123. Butler, H. G. 1931. **Observations on the biology of the peachtree borer in Roane County, Tenn., Harriman, Tenn. 1931.** J. Econ. Entomol. 25:781-786.
124. Butterfield, H. M. 1937. **Bush berry culture in California,** p. 44-47. Calif. Agric. Ext. Serv. Circ. 80.
125. Caesar, L. 1916. **Insects of the season in Ontario.** Entomol. Soc. Ont. Annu. Rep. 46:30-31.
126. Caesar, L. 1930. **Insects attacking fruit trees,** p. 62-66. Ont. Dep. Agric. Bull. 356, 70 p.
127. Cannon, F. M. 1947. **A review of 1946.** Can. Insect Pest Rev. 25:93-99.
128. Chamberlain, G. C. and G. C. Dustan. 1954. **Diseases and insect pests of stone fruits in Canada,** p. 23-26. Can. Dep. Agric. Publ. 915, 45 p.
129. Chamberlin, W. J. 1931. **An introduction to forest entomology,** p. 47. Edwards Brothers, Inc., Ann Arbor, Mich., 138 p.
130. Chamberlin, W. J. 1951. **Notes on some unusual insect enemies of ornamental trees in Oregon in 1951.** *In* Proc. 27th Natl. Shade Tree Conf. 27:255-258.
131. Chambers, E. L. and H. E. Halliday. 1954. **Pests and diseases of small fruit,** p. 9. Wis. State Dep. Agric. Bull. 326.
132. Chambers, E. L., D. V. Jensen, H. E. Halliday, G. E. Hafstad, P. W. Smith and R. C. Wilkinson. 1955. **Pests and diseases of trees and shrubs,** p. 66. Wis. State Dep. Agric. Bull. 330, 88 p.
133. Champlain, A. B. 1927. **The peach tree borer.** Nature 10:93-94.
134. Chandler, S. C. 1924. **Some recent developments in the use of paradichlorobenzene, with discussion.** J. Econ. Entomol. 17:246-253.
135. Chandler, S. C. 1925. **Life history studies of the peachtree borer in southern Illinois.** Trans. Ill. Acad. Sci. 19:191-195.
136. Chandler, S. C. 1936. **Liquid applications to control peach borer and lesser peach borer.** J. Econ. Entomol. 29:754-756.
137. Chandler, S. C. 1939. **The peach tree borers of Illinois.** Ill. Nat. Hist. Surv. Circ. 31, 36 p.
138. Chandler, S. C. and W. P. Flint. 1941. **Fighting fruit insects in 1941.** Trans Ill. State Hortic. Soc. 74:436-444.
139. Chaplin, C. E. and G. W. Schneider. 1975. **Peach rootstock resistance to the common peach tree borer (*Aegeria exitiosa*).** HortScience 10:144.
140. Chase, W. W. 1916. **The principal parasites of the peach,** p. 5-11. Ga. State Board Entomol. Bull. 43, 45 p.
141. Chase, W. W. 1920. **The principal parasites of the peach,** p. 7-13. Ga. State Board Entomol. Bull. 57, 45 p.
142. Christie, G. I. and H. J. Reed. 1927. **Peachtree borer,** p. 12. Indiana Agric. Exp. Stn. Annu. Rep. 35.
143. Clark, G. N. and W. R. Enns. 1964. **Life history studies of the grape root borer (Lepidoptera:Aegeriidae) in Missouri.** Kans. Entomol. Soc. J. 37:56-63.
144. Clemens, B. 1860. **Contributions to American Lepidopterology.** Proc. Acad. Nat. Sci. Phila. 12:4-15.
145. Cleveland, C. R. 1927. **Stomach poisons for control of the squash vine borer.** J. Econ. Entomol. 20: 135-143.
146. Cleveland, M. L. and L. L. Murdock. 1964. **Natural sex attractant of the lesser peach tree borer.** J. Econ. Entomol. 57:761-762.
147. Cleveland, M. L., T. T. Y. Wong and K. W. Lamansky. 1968. **Rearing methods and biology of the lesser peach tree borer, *Synanthedon pictipes*, in the laboratory.** Ann. Entomol. Soc. Am. 61:809-814.
148. Cockerell, T. D. A. 1908. **New sesiid moths.** Can. Entomol. 40:329-331.

149. Cody, C. E. 1944. **Pests on strawberries reduced by dusts, bait.** Better fruit 38:2-6.
150. Cody, L. R. 1919. **Peach root borer.** Orchard and Farm 31:34.
151. Coleman, V. R. 1968. **Control of** *Thamnosphecia scitula* **and** *Oberea tripunctata.* Ga. Univ. Ext. Leafl. 60, 6 p.
152. Cone, W. W. 1967. **Insecticidal response of currant borer and two-spotted spider mite on currants in central Washington.** J. Econ. Entomol. 60:436-441.
153. Conradi, A. F. and W. A. Thomas. 1909. **Peachtree borer,** p. 7. S. C. Agric. Exp. Stn. Annu. Rep. 124.
154. Cook, A. J. 1875. **Insects injurious to farm, garden, and orchard,** p. 136-142. Mich. State Board Agric. 13th Annu. Rep. for 1874.
155. Cook, A. J. 1875. **The currant borer.** Country Gentlemen 11:438-439.
156. Cook, A. J. 1891. **Currant borers,** p. 106-110. Proc. Mich. Hortic. Soc. for 1890.
157. Cook, A. J. 1917. **Borers in peach trees.** The Rural New Yorker 76:1107.
158. Cook, J. R. and J. D. Solomon. 1976. **Damage, biology, and natural control of insect borers in cottonwood (*Populus deltoides*).** *In* Proc. Symp. Eastern Cottonwood and Related Species, Sept. 28-Oct. 2, 1976, p. 272-279.
159. Coquillett, D. W. and C. V. Riley. 1891. **The California peach-tree borer.** Insect Life 3:392-393.
160. Cory, E. N. 1913. **The peach tree borer** *Sanninoidea exitiosa* **Say,** p. 181-218. Md. Agric. Exp. Stn. Bull. 176.
161. Craighead, E. M. 1923. **Emergence records of the peach tree borer,** *Aegeria exitiosa* **(Say), in Pennsylvania.** J. Econ. Entomol. 16:376-377.
162. Cushman, R. A. 1921. **The North American ichneumon-flies of the tribe Ephialtini.** U.S. Natl. Mus. Proc. 58: 339.
163. Darrow, G. M. 1919. **Regions where currants and gooseberries can be grown,** p. 19. U.S. Dep. Agric. Farmers Bull. 1024, 40 p.
164. Darrow, G. M. and S. B. Detwiler. 1929. **Currants and gooseberries: their culture and relationship to white-pine blister rust,** p. 16. U.S. Dep. Agric. Farmers Bull. 1398, 43 p.
165. Darrow, G. M. and S. B. Detwiler. 1946. **Currants and gooseberries: their culture and relation to white-pine blister rust,** p. 17. U.S. Dep. Agric. Farmers Bull. 1398 rev. 38 p.
166. Davis, G. C. 1892. **Notes on few borers.** Insect Life 4:64-67.
167. Davis, J. J. 1921. **Control of the peach tree borer.** Purdue Agric. Ext. Leafl. 121, 4 p.
168. Davis, J. J. 1922. **Insect problems in Indiana during 1921.** J. Econ. Entomol. 15:277-282.
169. Davis, J. J. 1922. **Paradichlorobenzene effective against the peach tree borer.** Indiana Hortic. Soc. Trans. 61:195.
170. Davis, J. J. 1925. **Insect control notes.** Hoosier Hortic. 7:158-159.
171. Davis, J. J. 1929. **Dates for treating peach tree borer.** Hoosier Hortic. 11:79-80.
172. Davis, J. J. 1952. **Protecting shade trees and shrubs against insects,** p. 19-20. Purdue Univ. Agric. Ext. Serv., Ext. Bull. 168.
173. Davis, J. J. and M. W. Gardner. 1931. **Insect and disease problems of the peach grower,** p. 4-5. Purdue Agric. Ext. Bull. 176, 24 p.
174. Davis, S. H. and C. C. Hamilton. 1955. **Diseases and insect pests of rhododendron and azalea,** p. 4, 16, 18. N.J. Agric. Exp. Stn. Circ. 571, 30 p.
175. Dean, G. A. 1922. **Some important garden insects,** p. 154-170. Kans. State Hortic. Soc. Bienn. Rep. for years 1920-1921. 36:163-180.
176. Dean, G. A. 1930. **Insects injurious to currants and insects injurious to raspberry and blackberry,** p. 148-150. Kans. State Hortic. Soc. Bienn. Rep. for years 1928-1929. 40:137-155.
177. Dix, M. E. 1976. **Protection of Great Plains shelterbelts from insects,** p. 169-171. *In* Proc. Symp. Shelterbelts on the Great Plains, Great Plains Agric. Counc. Publ. 78, 218 p.
178. Dixon, S. H. 1913. **ABC of fruit growing,** p. 132-134. Tex. Dep. Agric. Bull. 32.
179. Doane, R. W., E. C. VanDyke, W. J. Chamberlin and H. E. Burke. 1936. **Forest Insects,** p. 319-323. McGraw-Hill, N.Y., 463 p.
180. Dolphin, R. E. and D. G. Davis. 1974. **Lesser peach tree borer control projects in the USDA,** p. 55-59. Proc. 33rd Annu. Conv. Natl. Peach Council.
181. Dolphin, R. E. and K. W. Lamansky. 1970. **Extending the life of stored thinning apples used to rear the lesser peach tree borer.** J. Econ. Entomol. 63:306-307.
182. Dolphin, R. E., T. E. Mouzin and M. L. Cleveland. 1972. **Insects associated with peach wood in eastern United States.** Can. Entomol. 104: 1593-1608.
183. Dolphin, R. E., T. T. Y. Wong, D. G. Davis, D. F. Ralston, T. E. Mouzin, J. A. Burnside and H. L. Chandler. 1973. **Mass trapping of the lesser peachtree borer on Washington Island, Wisconsin,** p. 173-174. Proc. 28th Entomol. Soc. Am. N. Cent. Branch Meet.
184. Dorn, D. E. and L. R. Auchmoody. 1974. **Progress report effects of fertilization on vegetative growth and early flowering and fruiting of seed orchard black cherry,** p. 6-16. Proc. 21st Northeast. For. Tree Improv. Conf. (1973).
185. Douglass, B. W. 1922. **Peach tree's enemy.** Country Gentleman 87:18.
186. Dowell, C. T. 1922. **New facts for Oklahoma farmers,** p. 18-19. Okla. Agric. Exp. Stn. Rep. 31, 28 p.
187. Downes, W. 1922. **The strawberry root weevil with notes on other insects affecting strawberries,** p. 15-16. Can. Dep. Agric. Entomol. Branch Pam. 5, 16 p.
188. Downes, W., K. M. King and H. Anderson. 1947. **A review of 1946.** Can. Insect Pest Rev. 25:100.
189. Driggers, B. F. and C. L. Smith. 1944. **Field tests of DDT to control the peach tree borer.** J. Econ. Entomol. 37:537.
190. Duckworth, W. D. and T. D. Eichlin. 1973. **New species of clearwing moths (Lepidoptera: Sesiidae) from North America.** Proc. Entomol. Soc. Wash. 75:150-159.
191. Duckworth, W. D. and T. D. Eichlin. 1973. **The type-material of North American clearwing moths (Lepidoptera:Sesiidae).** Smithsonian Contrib. to Zool. 148, 34 p.
192. Duckworth, W. D. and T. D. Eichlin. 1976. **A new species of clearwing moth (Lepidoptera: Sesiidae) from northern Mexico and southeastern Arizona.** Proc. Entomol. Soc. Wash. 78:304-308.
193. Duckworth, W. D. and T. D. Eichlin. 1977. **A classification of the Sesiidae of America north of Mexico (Lepidoptera:Sesioidea).** Occas. Paper in Entomol. 26, 54 p. Calif. Dep. Food and Agric., Div. Plant Ind., Sacramento, Calif.

194. Duckworth, W. D. and T. D. Eichlin. 1977. **A new species of clearwing moth from Southcentral Texas.** Pan-Pacific Entomol. 53: 175-178.
195. Duckworth, W. D. and T. D. Eichlin. 1977. **Two new species of clearwing moths (Lepidoptera:Sesiidae) from eastern North America clarified by sex pheromones.** J. Lepidopt. Soc. 31:191-196.
196. Dupree, M. 1972. **Overwintering stages of the lesser peach tree borer in Georgia peach orchards.** Ga. Agric. Exp. Stn. Res. Rep. 144, 7 p.
197. Dupree, M. 1973. **Peach borer control with an extended spray schedule.** J. Ga. Entomol Soc. 8:303-306.
198. Dupree, M. 1973. **Seasonal emergence of lesser peach tree borer adults (Lepidoptera:Aegeriidae).** J. Ga. Entomol. Soc. 8:238-240.
199. Dutcher, J. D. and J. N. All. 1976. **Beware the grape root borer.** J. Am. Fruit Grower 96:18-19.
200. Dutsch, T. P. 1944. **The use of Palustrex Sulfonate for control of shot-hole (*Scolytus rugulosus*) and lesser peach tree (*Sanninoidea pictipes*) borers.** La. Agric. Exp. Stn. Insect Pest Control Res. Leafl. 10, 2 p.
201. Dyar, H. G. 1894. **A classification of lepidopterous larvae.** Ann. N. Y. Acad. Sci. 8:194-232.
202. Dyar, H. G. 1900. **Papers from the Harriman Alaska Expedition, XII. Lepidoptera.** Proc. Wash. Acad. Sci. 2:499-501.
203. Dyar, H. G. 1902. **List of North American Lepidoptera,** p. 365. U. S. Natl. Mus. Bull. 52.
204. Dyar, H. G. 1904. **Additions to the list of North American Lepidoptera.** Proc. Entomol. Soc. Wash. 6:103-119.
205. Ebeling, W. 1959. **Pecan pests,** p. 365. Subtropical Fruit Pests, Univ. Calif. Press, Berkeley, Calif. 436 p.
206. Edwards, H. 1880. **Descriptions of some new forms of Aegeriidae.** Bull. Brooklyn Entomol. Soc. 3:71-72.
207. Edwards, H. 1881. **New genera and species of the family Aegeriidae.** Papilio 1:179-208.
208. Edwards, H. 1882. **Descriptions of new species of North American Heterocera.** Papilio 2:123-130.
209. Edwards, H. 1882. **Further notes and descriptions of some North American Aegeriidae.** Papilio 2:123-130.
210. Edwards, H. 1882. **Notes on North American Aegeriidae, with descriptions of new forms.** Papilio 2:52-57.
211. Edwards, H. 1883. **New species of Aegeriidae.** Papilio 3:155-158.
212. Edwards, H. 1885. **New species of Californian moths.** Entomologica Americana. 1:49-50.
213. Edwards, H. 1887. **Descriptions of new species of North American Heterocera, with notes.** Can. Entomol. 19:145-147.
214. Edwards, H. 1888. **Catalogue of species of the higher families of the North American Heterocera.** Entomologica Americana 3:221-232.
215. Edwards, H. 1889. **Bibliographical catalogue of the described transformations of the North American Lepidoptera.** U. S. Natl. Mus. Bull. 35, 147 p.
216. Edwards, H. 1891. **Two new lepidopterous borers.** Psyche 6:108-109.
217. Eichlin, T. D. 1975. **Clearwing moth borers of cucurbits.** Natl. Pest Control Oper. News 35(1):4-7.
218. Engelhardt, G. P. 1924. **Field notes on western clearwing moths (Aegeriidae).** Bull. Brooklyn Entomol. Soc. 19:125-127.
219. Engelhardt, G. P. 1925. **Studies in North American Aegeriidae (Lepidoptera). I. Descriptions and corrections of species from Long Island, New York.** Bull. Brooklyn Entomol. Soc. 20:61-69.
220. Engelhardt, G. P. 1925. **Studies of North America Aegeriidae (Lepidoptera). II. Descriptions of two new western species.** Bull. Brooklyn Entomol. Soc. 20:215-217.
221. Engelhardt, G. P. 1925. **Studies of North American Aegeriidae (Lepidoptera). III. Clematis root borers of American north of Mexico.** Bull. Brooklyn Entomol. Soc. 20:153-158.
222. Engelhardt, G. P. 1928. **Boisduval types of Aegeriidae in the Wm. Barnes collection of N. A. Lepidoptera.** Bull. Brooklyn Entomol. Soc. 23:67-68.
223. Engelhardt, G. P. 1936. **Desert in bloom.** Bull. Brooklyn Entomol. Soc. 31:49-56.
224. Engelhardt, G. P. 1937. **Proceedings of the Society.** Bull. Brooklyn Entomol. Soc. 32:80-89.
225. Engelhardt, G. P. 1939. **Proceedings of the Society.** Bull. Brooklyn Entomol. Soc. 34:224-227.
226. Engelhardt, G. P. 1946. **The North American clear-wing moths of the family Aegeriidae.** U. S. Natl. Mus. Bull. 190, 222 p.
227. Eshbaugh, E. L. 1961. **Biology and control of the peach tree borer in southcentral Kansas,** p. 64-65. 16th Entomol. Soc. Am. N. Cent. Branch Proc.
228. Essig, E. O. 1922. **The paradichlorobenzene treatment.** J. Econ. Entomol. 15:178.
229. Essig, E. O. 1958. **Insects and mites of western North America.** 2d ed. p. 720-728. The MacMillan Co., N. Y., 1050 p.
230. Felt, E. P. 1898. **Insects injurious to maple trees,** p. 367-396. Fish, Game and For. Comm. N. Y. 4th Rep.
231. Felt, E. P. 1905. **Insects affecting park and woodland trees.** N. Y. State Mus. Mem. 8:56-58, 341-342.
232. Felt, E. P. 1915. **Report of the state entomologist for 1913,** p. 19-21. N. Y. State Mus. Bull. 175, 257 p.
233. Fitch, A. 1856. **Third report of the noxious, beneficial, and other insects of the State of New York,** p. 387, 423, 429. Trans. N. Y. State Agric. Soc. 16.
234. Flint, W. P. 1921. **The results of 2 years' experiments with para-dichlorobenzene for peach tree borer control,** p. 65. Ill. Hortic. Soc. Annu. Rep. for 1921.
235. Flint, W. P. and S. C. Chandler. 1922. **The peach borer and methods of control.** Ill. State Nat. Hist. Surv., Entomol. Ser., Circ. 8, 11 p.
236. Forbes, S. A. 1911. **Some important insects of Illinois shade trees and shrubs,** p. 462-529. Ill. Agric. Exp. Stn. Bull. 151.
237. Forbes, W. T. M. 1923. **The Lepidoptera of New York and neighboring states,** p. 360-374. Cornell Agric. Exp. Stn. Mem. 68.
238. Foust, W. L. 1929. **Raising winter squash in spite of borers.** The Rural New Yorker 88(5087):149.
239. Fracker, S. R. 1915. **The classification of lepidopterous larvae.** Ill. Biol. Mon. 2, 169 p.
240. French, G. H. 1878. **Economic entomology of Illinois,** p. 135-390. Seventh Rep. State Entomol. on the noxious and beneficial insects of Illinois for 1877.
241. French, G. H. 1881. **A parasite of *Aegeria syringae* Harr.** Papilio 1:106-108.
242. French, G. H. 1889. **On some Texas and California**

moths. Can. Entomol. 21:163-165.
243. French, G. T. 1946. **Dogwood borers (*Conopia scitula*) damage and control.** Gard. Gossip 21(4):3-4.
244. Frost, S. W. 1959. **Insect life and insect natural history.** 2d ed. p. 386-388. Dover Publ., Inc., N. Y. 526 p.
245. Fuller, A. S. 1880. **The insect enemies and diseases of our small fruits.** Am. Entomol. 3:93-94.
246. Funk, S. W. 1917. **Controlling the peach borer.** Pract. Farmer 113(18):316.
247. Fyles, T. W. 1884. **Proceedings annual meeting of the Entomological Society of Ontario.** Can. Entomol. 16:220.
248. Gaylord, W. 1844. **A treatise on insects injurious to field crops, fruit orchards, vegetable gardens, and domestic animals,** p. 161-162. Trans. N. Y. Agric. Soc. for 1843.
249. Gentry, C. R., J. L. Blythe and C. E. Yonce. 1976. **A time interval trapping device for surveying with pheromones in the field.** Environ. Entomol. 5:1062-1064.
250. Gentry, C. R., A. A. Sekul and C. E. Yonce. 1972. **Attractiveness of the sex pheromone of the peachtree borer (Lepidoptera:Aegeriidae) in field tests; its locus of emission; its extraction.** J. Ga. Entomol. Soc. 7:247-249.
251. Gentry, C. R., C. E. Yonce, J. H. Tumlinson and J. L. Blythe. 1977. **Capture of male lesser peachtree borers and peachtree borers at pheromone sources in the field.** J. Ga. Entomol. Soc. 12:145-150.
252. George, E. J. 1953. **Thirty-one year results in growing shelterbelts on the northern Great Plains.** U. S. Dep. Agric. Circ. 924, 57 p.
253. Germadius, P. 1874. **A new aegerian maple borer.** Am. Nat. 8:57-58.
254. Gilbert, F. A., E. C. Christ and B. F. Driggers. 1949. **Crown borer control on blackberry.** Hortic. News 30:2116-2117.
255. Gilbertson, G. L. 1934. **The plum tree borer, its distribution, life history, economic importance and control.** S. Dak. State Coll. Agric. Exp. Stn. Bull. 288, 22 p.
256. Gillette, C. P. 1891. **A few injurious insects and their remedies,** p. 104-105. Trans. Iowa State Hortic. Soc. for 1890.
257. Gillette, C. P. 1892. **Observations upon injurious insects,** p. 21-22. Colo. Agric. Exp. Stn. Bull. 19.
258. Girault, A. A. 1906. **Two new species of** *Telenomus.* Psyche 13:63-66.
259. Girault, A. A. 1907. **The lesser peach tree borer (*Synanthedon pictipes* G. and R.),** p. 31-48. U. S. Dep. Agric., Bur. Entomol. Bull. 68, pt. 4.
260. Gorsuch, C. S. and M. G. Karandinos. 1974. **Daily and seasonal patterns of** *Synanthedon pictipes* **emergence in Wisconsin.** Environ. Entomol. 3:1008-1012.
261. Gorsuch, C. S., M. G. Karandinos and C. F. Koval. 1975. **Daily rhythm of** *Synanthedon pictipes* **(Lepidoptera:Aegeriidae) female calling behavior in Wisconsin: temperature effects.** Entomol. Exp. Appl. 18:367-376.
262. Gossard, H. A. 1922. **Gas treatment for peach borer,** p. 31-40. Ohio Agric. Exp. Stn. Mon. Bull. 7.
263. Gossard, H. A. and J. L. King. 1918. **The peach tree borer** *Sanninoidea exitiosa* **Say,** p. 56-87. Ohio Agric. Exp. Stn. Bull. 329.
264. Gott, B. 1877. **Report on some of our fruit enemies,** p. 42-43. Ont. Entomol. Soc. Rep. for 1877.
265. Grabill, T. M. 1924. **Gassing the peach tree borer.** Purdue Agric. 18:137.
266. Graham, C. 1947. **Four years tests with DDT for the control of peach tree borer.** Penninsula Hortic. Soc. Trans. 61:29-32.
267. Graham, S. A. and F. B. Knight. 1965. **Principles of forest entomology.** 4th ed. p. 318. McGraw-Hill, N. Y., 417 p.
268. Grayson, J. M. 1943. **Observations on a lepidopterous borer in ash.** J. Econ. Entomol. 36:479.
269. Greenfield, M. D. and M. G. Karandinos. 1976. **Fecundity and longevity of** *Synanthedon pictipes* **under constant and fluctuating temperatures.** Environ. Entomol. 5:883-887.
270. Greenfield, M. D. and M. G.Karandinos. 1976. **Oviposition rhythm of** *Synanthedon pictipes* **under a 16:8 L:D photoperiod and various thermoperiods.** Environ. Entomol. 5:712-713.
271. Grote, A. R. 1875. **On certain species of moths from Florida.** Can. Entomol. 7:173-176.
272. Grote, A. R. 1880. **New species of North American moths.** Can. Entomol. 12:213-220.
273. Grote, A. R. 1881. **A new species of North American Aegeriidae.** Bull. Brooklyn Entomol. Soc. 3:78-79.
274. Grote, A. R. and C. T. Robinson. 1868. **Descriptions of American Lepidoptera.** Trans. Am. Entomol. Soc. 2:179-206.
275. Guyton, T. L. and J. R. Stear. 1924. **PDB and other controls for the peach tree borer.** Pa. Agric. Dep. Gen. Bull. 383, 10 p.
276. Hadley, C. H. 1917. **Some insect pests of fruit trees,** p. 118-129. Proc. Penn. State Hortic. Assoc. for 1917, 58th Annu. Meet.
277. Haines, R. G. 1959. **Control of the peach tree borer** *(Sanninoidea exitiosa).* Proc. Entomol. Soc. Am. N. Cent. Branch 14:86-87.
278. Halst, G. D. 1882. *Sesia Syringae.* Bull. Brooklyn Entomol. Soc. 5:17-18.
279. Hamilton, C. C. 1933. **The control of insects boring in ornamental shrubs and shade trees,** p. 59-73. *In* Proc. Ninth Natl. Shade Tree Conf.
280. Hamilton, C. C. 1950. **Mist blowers control pests.** South. Florist and Nurseryman 63(28):18, 55-57, 92-94.
281. Hamilton, C. C. 1956. **Supplied information for C. H. Conner's rhododendrons and their kin,** p. 14-15. N. J. Agric. Exp. Stn. Circ. 575, 16 p.
282. Hamilton, D. W. 1959. **Control of borers in peach trees with insecticides.** Proc. Entomol. Soc. Am. N. Cent. Branch 14:87-88.
283. Handford, R. H. and C. L. Neilson. 1952. **Insects of the season in 1951.** Can. Insect Pest Rev. 30(1):9, 12, 39, 58, 79.
284. Harrington, W. H. 1887. **Insects infesting maple trees,** p. 24-25. Ont. Entomol. Soc. Rep. for 1887.
285. Harris, E. D. 1967. **Peach tree borer.** Ga. Univ. Ext. Leafl. 27, 6 p.
286. Harris, H. M. 1932. **Habits and control of some fruit tree borers.** Iowa Hortic. Soc. Trans. 67:26-28.
287. Harris, T. W. 1826. **Peach tree insect.** New Engl. Farmer 5:33, 170.
288. Harris, T. W. 1828. **Insects.** New Engl. Farmer 7:33-34.
289. Harris, T. W. 1830. **Insects.** New Engl. Farmer 9:1-2.
290. Harris, T. W. 1839. **Descriptive catalogue of the North American insects belonging to the Linnaean genus** *Sphinx.* Am J. Arts Sci. 36:282-320.

291. Harris, T. W. 1851. **The currant-tree borer.** Mag. Hortic. 17:241-244.
292. Harris, T. W. 1852. **A report on the insects of Massachusetts injurious to vegetation,** p. 251-256. White and Potter, Boston, 513 p.
293. Harris, T. W. 1854. **Report on some of the diseases and insects affecting trees and vines,** p. 197-217. Proc. Am. Pomol. Soc. Cong. of 1854.
294. Harris, T. W. 1862. **A treatise on some of the insects injurious to vegetation.** 3d ed. p. 329-335. Edited by Charles L. Flint. William White, Boston, 640 p.
295. Haseman, L. 1922. **Nursery and orchard insect pests,** p. 25-26. Mo. Agric. Exp. Stn. Bull. 176.
296. Haseman, L. 1936. **Controlling borers of fruit, forest, and shade trees.** Mo. Agric. Exp. Stn. Bull. 373, 24 p.
297. Hay, C. J. 1968. **Frass of some wood-boring insects in living oak (Coleoptera: Cerambycidae; Lepidoptera: Cossidae and Aegeriidae).** Ann. Entomol. Soc. Am. 61:255-258.
298. Headlee, T. J. and C. Ilg. 1926. **Some facts relative to the raspberry crown borer (*Bembecia marginata*).** J. Econ. Entomol. 19:471-477.
299. Heichel, G. H. and N. C. Turner. 1973. **Physiological responses of dogwood (*Cornus florida*) to infestation by the dogwood borer (*Thamnosphecia scitula*).** Ann. Appl. Biol. 75:401-408.
300. Heinrich, C. 1921. **On some forest Lepidoptera with descriptions of new species, larvae, and pupae.** Proc. U.S. Natl. Mus. 57:53-96.
301. Herbert, F. B. 1936. **Insect pests of western oaks and their control, p. 37-38.** *In* Proc. 3rd West. Shade Tree Conf.
302. Herrick, G. W. 1904. **Insects injurious to pecans,** p. 11-15. Miss. Agric. Exp. Stn. Bull. 86, 42 p.
303. Herrick, G. W. 1907. **Notes on** *Sannina uroceriformis.* Can. Entomol. 39:265-266.
304. Herrick, G. W. 1919. **Getting ahead of the squash-vine borer.** The Rural New Yorker 78:963.
305. Herrick, G. W. 1923. **Paracide for control of the peachtree borer.** The Cornell Countryman 20:91-92.
306. Herrick, G. W. 1923. **Recent experiences in the control of two old pests.** N. Y. State Hortic. Soc. Proc. 68:84-100.
307. Herrick, G. W. 1924. **Keep flowers free from parasites: The squash vine borer is a pest that must be destroyed.** Am. Agric. 113:544.
308. Hodges, R. W. 1962. **A new species of** *Synanthedon* **from Ohio (Lepidoptera: Aegeriidae).** Bull. Brooklyn Entomol. Soc. 57:139-141.
309. Hoffmeister, A. W. 1878. **Report on noxious insects of small fruits,** p. 245-246. Iowa State Hortic. Soc. Annu. Rep. for 1877.
310. Holland, W. J. 1968. **The moth book — A popular guide to a knowledge of the moths of North America,** p. 379-390. Dover Publ. Inc., N. Y. 479 p.
311. Holloway, R. L., S. Childers and C. Gentry. 1977. **A bibliography of the lesser peachtree borer,** *Synanthedon pictipes* **and the peachtree borer,** *Sanninoidea exitiosa* **(Lepidoptera:Sesiidae).** Bull. Entomol. Soc. Am. 23(1):15-18.
312. Holloway, R. L., S. Childers, J. H. Tumlinson and C. E. Yonce. 1977. **Trapping the lesser peachtree borer with (E,Z) 3, 13-octadecadien-l-ol acetate.** J. Ga. Entomol. Soc. 12:365-368.
313. Houser, J. S. 1918. **Destructive insects affecting Ohio shade and forest trees,** p. 322-323. Ohio Agric. Exp. Stn. Bull. 332.
314. Howe, W. L. 1949. **Factors affecting the resistance of certain cucurbits to the squash borer.** J. Econ. Entomol. 42:321-326.
315. Howe, W. L. 1950. **Biology and host relationships of the squash vine borer.** J. Econ. Entomol. 43:480-483.
316. Howe, W. L. and A. M. Rhodes. 1973. **Host relationships of the squash vine borer,** *Melittia cucurbitae,* **with species of Cucurbita.** Ann. Entomol. Soc. Am. 66:266-269.
317. Hulst, G. D. 1880. **Descriptions of some new species of North American Lepidoptera.** Bull. Brooklyn Entomol. Soc. 3:75-76.
318. Hulst, G. D. 1882. *Sesia syringae* **Harr.** Bull. Brooklyn Entomol. Soc. 5:17-20.
319. Hulst, G. D. 1883. **Notes on some Sesiidae.** Bull. Brooklyn Entomol. Soc. 6:8-10.
320. Jack, J. G. 1891. **A clematis borer.** Garden and For. 4:496.
321. Jack, J. G. 1892. **Notes on two troublesome borers.** Garden and For. 5:426.
322. Jack, J. G. 1894. **Notes on injurious insects,** p. 133-151. Trans. Mass. Hortic. Soc. for the year 1894.
323. Jacklin, S. W. and C. E. Yonce. 1969. **Induced shift of the diurnal emergence and calling of the peach tree borer.** J. Econ. Entomol. 62:21-22.
324. Jacklin, S. W., C. E. Yonce and J. P. Hollon. 1967. **The attractiveness of female to male peach tree borers.** J. Econ. Entomol. 60:1291-1293.
325. Jackson, W. E. 1923. **Peach tree borer,** p. 18-19. Okla. Agric. Exp. Stn. 31st Annu. Rep.
326. Jardine, J. A. 1921. **Peach and prune root borer,** p. 61. Oreg. Agric Exp. Stn. Director's Bienn. Rep. for 1918-1920.
327. Johnson, W. T. and H. H. Lyon. 1976. **Insects that feed on trees and shrubs,** p. 214-231. Comstock Publishing Associates, Cornell Univ. Press, Ithaca, N. Y. 464 p.
328. Jones, B. F. and G. Barnes. 1975. **Control peach tree borers on peach and plum trees.** Ark. Univ. Coop. Ext. Serv. Leafl. 91 rev. 6 p. Univ. Ark. Div. Agric.
329. Jones, F. M. 1912. **The female of** *Sesia rubrofascia* **Hy. Edw. (Lepidoptera).** Entomol. News 23:122.
330. Jones, T. H. and T. E. Ashley. 1943. **Home orchards in Mississippi,** p. 31-32. Miss. Agric. Exp. Stn. Bull. 393.
331. Karandinos, M. G. 1974. **Environmental conditions and sex activity of** *Synanthedon pictipes* **in Wisconsin, monitored with virgin female pheromone traps.** Environ. Entomol. 3:431-438.
332. Karandinos, M. G. 1974. **Recovery of** *Synanthedon pictipes* **males released at various distances downwind of sex pheromones traps.** Environ. Entomol. 3:923-925.
333. Karandinos, M. G., J. H. Tumlinson and T. D. Eichlin. 1977. **Field evidence of synergism and inhibition of the Sesiidae sex pheromone system.** J. Chem. Ecol. 3:57-64.
334. Keen, F. P. 1928. **Insect enemies of California pines and their control,** p. 80-81. California State Dep. Nat. Resources, Div. For. Bull. 7, 113 p.
335. Keen, F. P. 1952. **Insect enemies of western forests,** p. 178-200. U.S. Dep. Agric. Misc. Publ. 273 rev. 280 p.
336. Kellicott, D. S. 1881. **Notes on** *Aegeria pini.* Can. Entomol. 13:157-159.
337. Kellicott, D. S. 1881. **Observations on several species of**

Aegeriidae inhabiting the vicinity of Buffalo, N. Y. Can. Entomol. 13:3-8.
338. Kellicott, D. S. 1882. **Observation and notes,** p. 61-63. Buffalo Soc. Nat. Sci. Bull. 4.
339. Kellicott, D. S. 1890. **Blackberry borer.** J. Columbus Hortic. Soc. 5:27.
340. Kellicott, D. S. 1890. **Our injurious Aegerians.** J. Columbus hortic. Soc. 5:11-19.
341. Kellicott, D. S. 1891. **Notes on two borers injurious to the mountain ash.** Can. Entomol. 23:250-252.
342. Kellicott, D. S. 1892. **Notes on the Aegeriidae of Central Ohio—I.** Can. Entomol. 24:42-47.
343. Kellicott, D. S. 1892. **Notes on the Aegeriidae of Central Ohio—II.** Can. Entomol. 24:209-212.
344. Kelsey, L. P. and L. A. Stearns, 1960. **Control of pear borer and American plum borer in apple trees.** J. Econ. Entomol. 53:276-278.
345. King, D. R. 1963. **Scheduling insecticide applications for peach tree borer control.** J. Econ. Entomol. 56:270-272.
346. King, D. R. and H. F. Morris. 1956. **Biologies of the peach tree borer and lesser peach tree borer in east Texas.** J. Econ. Entomol. 49:397-398.
347. King, H. 1945. **How to control squash vine borer.** Mich. State Coll. Agric. Ext. Folder 81, 4 p.
348. King, J. L. 1914. **Contributions to the life history of the lesser peach tree borer in Ohio.** J. Econ. Entomol. 7:401-403.
349. King, J. L. 1917. **The lesser peach tree borer,** p. 399-437. Ohio Agric. Exp. Stn. Bull. 307.
350. King, J. L. 1917. **The peach tree borer life history, habits, injuries and control measures,** p. 23-28. Ohio Agric. Exp. Stn. Mon. Bull. 2.
351. Knowlton, G. F. and D. W. Davis. 1955. **Controlling the peach tree borer.** Utah Agric. Ext. Circ. 218, 2 p.
352. Kowal, R. J. 1958. **Shade tree insects in the South—their increasing importance and control,** p. 159-171. *In* Proc. 34th Natl. Shade Tree Conf.
353. Lamansky, K. W. and R. E. Dolphin. 1970. **Improved method of puncturing thinning apples used to rear the lesser peach tree borer.** J. Econ. Entomol. 63:307-308.
354. LaPlante, A. A., Jr. and E. H. Wheeler. 1948. **DDT and benzene hexachloride in sprays to control peach tree borer.** J. Econ. Entomol. 41:240-244.
355. Lathrop, F. H. and A. B. Black. 1921. **Studies of** *Sanninoidea opalescens* **Edw. in Oregon.** J. Econ. Entomol. 14:328-336.
356. Leiby, R. W. 1942. **Insect control in the vegetable garden,** p. 5. Cornell Ext. Bull. 503, 8 p.
357. Leonard, M. D. 1928. **A list of the insects of New York with a list of spiders and certain other allied groups,** p. 555-557. Cornell Univ. Agric. Exp. Stn. Mem. 101, 1121 p.
358. Levison, J. J. 1949. **Home book of trees and shrubs,** p. 342-350. Alfred A. Knopf, N. Y.
359. Lincoln, C. G. 1944. **It's time to control the peach tree borer.** Farm and Ranch 63:14.
360. Lintner, J. A. 1872. **Entomological Contributions,** p. 60-62. N. Y. State Cabinet Nat. Hist. 23rd Annu. Rep.
361. Lintner, J. A. 1879. **The peach tree borer.** Cultivator and Ctry. Gentleman 44:199-200.
362. Lintner, J. A. 1883. **A new sexual character in the pupa of some Lepidoptera.** Psyche 4:106-107.
363. Lintner, J. A. 1886. **Insects and other pests.** New Engl. Homestead 20:198-199.
364. Lintner, J. A. 1888. **Egg-laying of peach borer moth.** Cultivator and Ctry. Gentleman 53:109-110.
365. Lugger, O. 1891. **Two new lepidopterous borers.** Psyche 6:108-109.
366. Lugger, O. 1896. **Insects injurious in 1895,** p. 183-198. Minn. Agric. Exp. Stn. Bull. 43, 251 p.
367. Lugger, O. 1897. **Insects injurious in 1896,** p. 37-39. Univ. Minn. State Exp. Stn. 2nd Annu. Rep., 244 p.
368. Lyle, C. 1945. **Three methods of treatment and control of the peach tree borer (*Sanninoidea exitiosa*).** Miss. Farm Res. 8(9):8.
369. Mabee, W. B. 1922. **Control methods for insects injurious to the peach,** p. 6-7. N. C. Agric. Ext. Circ. 129.
370. MacAloney, H. J. and H. G. Ewan. 1964. **Identification of hardwood insects by type of tree injury, North-Central Region,** p. 59-60. USDA For. Serv., Res. Pap. LS-11, 70 p. Lake States For. Exp. Stn., St. Paul, Minn.
371. MacCreary, D. 1951. **Seasonal activity of the lesser peachtree borer and peachtree borer moths.** Trans. Peninsula Hortic. Soc. 91:113-115.
372. MacCreary, D. 1954. **Evaluation of trunk sprays against peach tree borers in Delaware.** J. Econ. Entomol. 47:359-360.
373. McDaniel, E. I. 1936. **Wood borers attacking deciduous trees and shrubs,** p. 11-12, 33-35, 44. Mich Agric. Exp. Stn. Spec. Bull. 238, 52 p.
374. MacKay, M. R. 1968. **The North American Aegeriidae (Lepidoptera): A revision based on late instar larvae.** Mem. Entomol. Soc. Can. 58, 112 p.
375. McKnight, M. E. and S. Tunnock. 1973. **The borer problem in green ash in North Dakota shelterbelts.** N. Dak. Agric. Exp. Stn. Farm Res. 30:8-14.
376. McLaughlin, J. R., R. E. Doolittle, C. R. Gentry, E. R. Mitchell and J. H. Tumlinson. 1976. **Response to pheromone traps and disruption of pheromone communication in the lesser peach tree borer and the peach tree borer (Lepidoptera:Sesiidae).** J. Chem. Ecol. 2:73-81.
377. McLaughlin, J. R., J. H. Tumlinson and J. L. Sharp. 1977. **Absence of synergism in the response of Florida lesser peachtree borer males to synthetic sex pheromone.** Fla. Entomol. 60:27-29.
378. MacNay, C. G. 1953. **Summary of important insect infestations, occurrences and damage in Canada in 1953.** Can. Insect Pest Rev. 31:347-355.
379. Madsen, H. F. and J. B. Bailey. 1959. **Control of** *Sanninoidea exitiosa graefi* **(Hy. Edw.) on apricots.** J. Econ. Entomol. 52:804-806.
380. Madsen, H. F. and R. R. Sanborn. 1959. **Peach tree borer on apricots.** Calif. Agric. Exp., Calif. Agric. 13:10-11.
381. Madsen, H. F. and R. R. Sanborn. 1960. **Two-spray program controlled western peach tree borer (*Sanninoidea exitiosa graefi*) on apricots in Contra Costa County studies.** Calif. Agric. 14(3):10-15.
382. Manns, T. F. 1918. **Peach diseases (mechanical protectors for borers),** p. 1-3. Del. Agric. Exp. Stn. Bull. 122.
383. Marlatt, C. L. 1896. **The peach-tree borer.** U.S. Dep. Agric. Circ. 17, 4 p.
384. Marshall, G. E. 1950. **Control of insects in sod culture peach orchards.** J. Econ. Entomol. 43:164-166.
385. Marten, J. 1881. **Tenth report of the state entomologist on the noxious and beneficial insects of the state of Illinois,** p. 106-110. Trans. Ill. Dep. Agric. for 1880.

386. Martin, D. F. 1953. **Peach tree borer control.** J. Econ. Entomol. 46:704-705.
387. Meter, R. H. 1966. **An experiment on the use of hand treatment for lesser peach tree borer (*Synanthedon pictipes*) control.** Trans. Ill. State Hortic. Soc. 99:120-122.
388. Meyer, H. J., D. M. Norris and C. F. Koval. 1974. **Laboratory rearing of the lesser peach tree borer *Synanthedon pictipes* on artificial diets.** Ann. Entomol. Soc. Am. 67:721-722.
389. Michelbacher, A. E. and R. F. Smith. 1942. **Experiments for controlling the western peach borer.** J. Econ. Entomol. 35:393-398.
390. Middleton, W. 1933. **The scope of the shade tree and shrub insect problem with special reference to the conditions found in 1932,** p. 73-85. *In* Proc. Ninth Natl. Shade Tree Conf.
391. Miller, L. A. 1954. **Control of the squash vine borer.** Can. Dep. Agric. Publ. 910, 4 p.
392. Miller, L. A. 1955. **Notes on life-history and habits of the squash vine borer, *Melittia cucurbitae* (Harr.) (Lepidoptera: Aegeriidae), in southwestern Ontario.** Can. J. Agric. Sci. 35:533-537.
393. Miller, L. A. 1956. **Insecticides and varietal resistance in the control of the squash vine borer, *Melittia cucurbitae* (Harr.), in southwestern Ontario.** Can. J. Agric. Sci. 36:309-313.
394. Miller, P. A. 1950. **Problems of oak trees in southern California a committee report,** p. 273-284. *In* Proc. 26th Natl. Shade Tree Conf.
395. Moore, D. H. 1960. **Thiodan, a promising chemical for control of the lesser peach tree borer.** J. Econ. Entomol. 53:321-322.
396. Morris, J. G. 1862. **Synopsis of the described Lepidoptera of North America,** p. 137-141, 330-335, 436. Smithsonian Misc. Collection for 1862.
397. Morris, R. C. 1958. **Insect pests of cottonwood reproduction.** Miss. State Univ. Agric. Exp. Stn. Inform. Sheet 591, 2 p.
398. Morris, R. C. 1965. **Controlling insect damage to southern hardwood forests.** *In* Insects in Southern Forests, Proc. La. State Univ. 14th Annu. For. Symp., p. 114-124.
399. Morris, R. C., T. H. Filer, J. D. Solomon, F. I. McCracken, N. A. Overgaard and M. J. Weiss. 1975. **Insects and Diseases of Cottonwood,** p. 6-8, USDA For. Serv. Gen. Tech. Rep. SO-8, 37 p. South. For. Exp. Stn., New Orleans, La.
400. Morse, R. A. 1957. **A note on the biology of *Synanthedon sapygaeformis floridensis* (Grote) (Lepidoptera: Aegeriidae).** Fla. Entomol. 40:61-62.
401. Mosher, E. 1919. **Notes on lepidopterous borers found in plants with special reference to the European corn borer.** J. Econ. Entomol. 12:258-274.
402. Mosher, E. 1969. **Lepidoptera pupae,** p. 36-39. Entomol. Reprint Specialists, East Lansing, Mich., 323 p.
403. Mote, D. C., J. Wilcox and O. A. Hill. 1929. **The strawberry crown-moth in Oregon.** J. Econ. Entomol. 22:936-943.
404. Muesebeck, C. F. W. 1921. **A revision of the North American species of ichneumon flies belonging to the genus *Aparteles.*** Proc. U. S. Natl. Mus. 58:506, 525.
405. Munro, J. A. and A. C. Fox. 1933. **Notes on borers of trees and shrubs.** N. and S. Dak. Hortic. 5:91-93.
406. Munro, J. A. and H. W. Riddle. 1930. **Insect pests of trees and gardens,** p. 8. N. Dak. Agric. Exp. Stn. Circ. 42, 55 p.
407. Neiswander, R. B. 1940. **Present status of some Ohio peach pests.** Ohio State Hortic. Soc. Proc. 73:36-37.
408. Neiswander, R. B. 1956. **Control of insect pests of ornamentals.** Am. Nurseryman 104:11, 78.
409. Neiswander, R. B. 1956. **Control of ornamental pests.** South. Florist and Nurseryman 63(28):18, 55-57, 92-94.
410. Neumoegen, B. 1891. **Some new and beautiful Aegeriidae.** Entomol. News 2:107-109.
411. Neumoegen, B. 1894. **Some beautiful new forms of North American Aegeriidae.** Entomol. News 5:330-331.
412. Nielsen, D. G. 1974. **Research on and control of borers that attack shade trees and shrubs.** Arbor News 39:37-44.
413. Nielsen, D. G. 1975. **Insect-tree relationships in the urban environment.** Ohio Rep. Res. Dev. Agric. Home Econ. Nat. Resources 60(6):100-102.
414. Nielsen, D. G. 1975. **Test sex pheromones for insect control.** Ohio Rep. Res. Dev. Agric. Home Econ. Nat. Resources 60(3):43-44.
415. Nielsen, D. G. and C. P. Balderston. 1972. **Preliminary results of lilac borer control studies.** Pestic. News 25:16-18.
416. Nielsen, D. G. and C. P. Balderston. 1973. **Evidence for intergeneric sex attraction among aegeriids.** Ann. Entomol. Soc. Am. 66:227-228.
417. Nielsen, D. G. and F. F. Purrington. 1974. **Flight periods of *Podosesia* and comments on the monotypic status of the genus (Lepidoptera:Sesiidae).** Ann. Entomol. Soc. Am. 67:959-960.
418. Nielsen, D. G., F. F. Purrington and C. P. Balderston. 1973. **Evaluation of insecticides for control of lilac borer, *Podosesia syringae,* in Rancho Roundhead ash.** Pestic. News 26:94-95.
419. Nielsen, D. G., F. F. Purrington, J. H. Tumlinson, R. E. Doolittle and C. E. Yonce. 1975. **Response of male clearwing moths to caged virgin females, female extracts, and synthetic sex attractants.** Environ. Entomol. 4:451-454.
420. O'Kane, W. C. 1924. **Injurious insects — how to recognize and control them,** p. 231-232, 237-241, 243-244. MacMillan Co., N. Y.
421. Orcutt, I. H. and J. M. Aldrich. 1891. **The ash borer,** p. 80-83. S. Dak. Agric. Coll. Exp. Stn. Bull. 22.
422. Osborn, H. 1879. **Ash-tree borer.** Coll. Quart. 2:10-12.
423. Osborn, H. 1880. **Ash-tree borer.** Coll. Quart. 3:33-35.
424. Osborn, H. 1880. **Note on *Trochilium denudatum.*** Coll. Quart. 3:14-15.
425. Osborn, H. 1881. **The ash-tree borer,** p. 107-111. Trans. Iowa Hortic. Soc. for 1880.
426. Osborn, H. 1893. **Fruit and forest tree insects,** p. 96-127. Iowa State Hortic. Soc. Rep. for 1892.
427. Packard, A. S. 1889. **Guide to the study of insects and a treatise on those injurious and beneficial to crops, for the use of colleges, farm-schools, and agriculturists.** 9th ed. p. 276-279. Henry Holt and Co., N. Y.
428. Packard, A. S. 1890. **Insects injurious to forest and shade trees,** p. 217-922. USDA Fifth Rep. U. S. Entomol. Comm.
429. Parrott, P. J., D. M. Daniel, E. H. Smith and E. H. Wheeler. 1944. **Common insect pests of New York. 10. The peachtree borer.** N. Y. Agric. Exp. Stn. Circ. 172 rev. 4 p.
430. Parrott, P. J. and H. E. Hodgkiss. 1916. **Miscellaneous notes on injurious insects,** p. 359-387. N. Y. Agric. Exp. Stn. Bull. 423.
431. Payne, J. A., R. R. Pate, J. L. Blythe and C. E. Yonce. 1976.

Lesser peach tree borer: A mechanical separator for extracting cocoons from rearing trays. J. Ga. Entomol. Soc. 11:366-369.

432. Peck, G. W. 1931. **Peach growing in New York,** p. 26-28. Cornell Agric. Ext. Bull. 208, 28 p.
433. Peterson, A. 1918. **Some experiments on the adults and eggs of the peach tree borer,** *Sanninoidea exitiosa* **Say, and other notes with discussion.** J. Econ. Entomol. 11:46-55.
434. Peterson, A. 1920. **A preliminary report on the use of sodium cyanide for the control of the peach-tree borer (***Sanninoidea exitiosa* **Say).** J. Econ. Entomol. 13:201-207.
435. Peterson, A. 1920. **Response of the larvae of the peach tree borer (***Sanninoidea exitiosa* **Say) to various measures for control and additional notes,** p. 402-419. N. J. Agric. Exp. Stn., 40th Annu. Rep.
436. Peterson, A. 1921. **A preliminary report on the use of new mechanical protectors for the control of the peach tree borer,** *Sanninoidea exitiosa* **Say,** p. 461-468. N. J. Agric. Exp. Stn., 41st Annu. Rep.
437. Peterson, A. 1921. **Some soil fumigation experiments with para-dichlorobenzene for the control of the peach tree borer,** *Sanninoidea exitiosa* **Say.** Soil Sci. 11:305-319.
438. Peterson, A. 1922. **Gassing peach tree borers.** Am. Fruit Grower 42:20.
439. Peterson, A. 1923. **Paradichlorobenzene (p-c-benzene) for controlling the peach-tree borer.** N. J. Agric. Exp. Stn. Circ. 156, 12 p.
440. Peterson, A. 1948. **Larvae of insects, Part I. Lepidoptera and plant infesting Hymenoptera,** p. 128-129. Edwards Bros. Inc., Ann Arbor, Mich. 315 p.
441. Peterson, L. O. T. 1964. **Insect borers in ash trees.** Can. Dep. Agric. T. N. Pam. 2, 10 p.
442. Pierce, W. C. and C. B. Nickels. 1941. **Control of borers on recently top-worked pecan trees.** J. Econ. Entomol. 34:522-526.
443. Pierce, W. C. and C. B. Nickels. 1942. **Control of borers in recently top-worked pecan trees.** Tex. Pecan Grow. Assoc. Proc. 21:71-78.
444. Pinkus, R. 1942. **Ash trees threatened by lilac borers.** J. N. Y. Bot. Gard. 43:294-296.
445. Piper, C. V. and R. W. Doane. 1898. **Insects injurious to currants and gooseberries,** p. 14-15. Wash. State Agric. Exp. Stn. Bull. 36.
446. Pitre, O. and B. Parent. 1968. **A cage for determining the emergence of adults of the dogwood clearwing.** Phytoprotection 49(3):103-105.
447. Pless, C. D. and W. W. Stanley. 1967. **Life history and habits of the dogwood borer,** *Thamnosphecia scitula* **(Lepidoptera:Aegeriidae), in Tennessee.** J. Tenn. Acad. Sci. 42:117-123.
448. Pollet, D. K. 1975. **The grape root borer in South Carolina.** Clemson Univ. Ext. Surv. Circ. 550, 7 p.
449. Porter, B. A. 1941. **Recent developments in fruit insect problems.** Pa. State Hortic. Assoc. Proc. 82:57-67.
450. Powell, D., S. C. Chandler and J. C. McDoniel. 1955. **Pest control in commercial fruit plantings,** p. 23-24. Ill. Univ. Agric. Ext. Serv. Circ. 737.
451. Powers, R. F. and W. E. Sundahl. 1973. **Sequoia pitch moth: A new problem in fuel-break construction.** J. For. 71:338-339.
452. Purrington, F. F. and D. G. Nielsen. 1977. **Biology of** *Podosesia* **(Lepidoptera:Sesiidae) with description of a new species from North America.** Ann. Entomol. Soc. Am. 70:906-910.
453. Putman, W. L. 1959. **Hibernation sites of phytoseiids (Acarina:Phytoseiidae) in Ontario peach orchards.** Can. Entomol. 91:735-741.
454. Quaintance, A. L. 1921. **The peach borer, how to prevent or lessen its ravages.** U. S. Dep. Agric. Farmers' Bull. 1246, 14 p.
455. Raine, J. 1962. **Life history and behaviour of the raspberry crown borer** *Bembecia marginata* **(Harr.) (Lepidoptera: Aegeriidae).** Can. Entomol. 94:1216-1222.
456. Raine, J. 1964. **Effect of raspberry crown borer,** *Bembecia marginata,* **on yield of loganberries.** Can. J. Plant Sci. 44:75-77.
457. Raine, J., and H. Andison. 1960. **Chemical control of the raspberry root borer,** *Bembecia marginata* **(Harr.), on loganberry in British Columbia.** Can. J. Plant Sci. 40(1):160-164.
458. Ramsower, H. C. 1932. **Spraying program and pest control in the orchard,** p. 43-45. Ohio State Univ. Ext. Bull. 128.
459. Reed, E. B. 1884. **Proceedings Annual Meeting of the Entomological Society of Ontario.** Can. Entomol. 16:220.
460. Reid, W. J., Jr. and F. P. Cuthbert, Jr. 1956. **Biology studies of the pickle worm.** J. Econ. Entomol. 49:870-873.
461. Rice, P. L. and D. MacCreary. 1946. **Peachtree borer control in Delaware.** Del. Agric. Exp. Stn. Bull. 261, 21 p.
462. Ridings, J. 1862. **Descriptions of a supposed new species of Aegeriidae from Virginia, and observations upon** *Papilio daunus* **Boisd.** Proc. Entomol. Soc. Phila. 1:377-378.
463. Riley, C. V. 1873. **Editorial summary — grape vine borers.** Can. Entomol. 5:218.
464. Riley, C. V. 1874. **A new Aegerian maple borer.** Am. Nat. 8:123-124.
465. Riley, C. V. 1881. **Lepidopterological notes.** Am. Nat. 15:751-753.
466. Riley, C. V. 1883. **Entomological notes.** Am. Nat. 17:778-793.
467. Riley, C. V. 1888. **Notes on the life habits of Aegeriidae.** Proc. Entomol. Soc. Wash. 1:85-87.
468. Riley, C. V. 1891. **The California peach-tree borer.** Insect Life 3:391-419.
469. Riley, C. V. and L. O. Howard. 1890. *Sciapteron robiniae* **in cottonwood in Washington territory.** Insect Life 2:18.
470. Riley, C. V. and L. O. Howard. 1891. **Maple tree borers.** Insect Life 3:161.
471. Riley, C. V. and L. O. Howard. 1892. **A clematis root borer.** Insect Life 4:219-220.
472. Riley, C. V. and L. O. Howard. 1892. **A sesiid pest of the persimmon.** Insect Life 4:332.
473. Riley, C. V. and L. O. Howard. 1894. **Notes.** Insect Life 6:206.
474. Riley, C. V. and L. O. Howard. 1894. **Persimmon root borer.** Insect Life 6:327-328.
475. Rings, R. W. 1951. **New insecticides for control of peach and plum insects.** Ohio State Hortic. Soc. Proc. 104:56-67.

476. Rings, R. W. 1953. **Life history and control of borers attacking peach trees.** Ohio State Hortic. Soc. Proc. 106:68-79.
477. Rings, R. W. 1960. **The biology and control of the lesser peach tree borer.** Ohio State Hortic. Soc. Proc. 113:71-80.
478. Rings, R. W. 1962. **Thiodan offers safety factor in controlling lesser peach tree borer.** Ohio Farm and Home Res. 47(3):36-38.
479. Ritcher, P. O., W. D. Valleau and W. W. Magill. 1939. **Fruit pests and their control,** p. 119-179. Ky. Agric. Exp. Stn. Bull. 393.
480. Rivers, J. J. 1888. **Note upon** *Aegeria impropria* **and a description of the female.** Entomol. Am. 4:99.
481. Roberts, E. G. 1956. **Grubs in the trunks of live green ash trees.** J. For. 54:846-847.
482. Rodriquez, J. G. 1950. **Control of peach borers.** Ky. Agric. Exp. Stn. Ky. Fruit Notes 4(2):2-4.
483. Rodriquez, J. G. 1953. **How to control peach tree borers.** Ky. Agric. Coll. Ext. Circ. 503, 7 p.
484. Rohwer, S. A. 1913. **Descriptions of new parasitic Hymenoptera.** Entomol. Soc. Wash. Proc. 15:180-187.
485. Rolston, L. H. and H. Bowden. 1966. **Insecticidal control of the pickleworm and squash vine borer.** Ark. Farm Res. 15(1):6.
486. Rosenstiel, R. G. 1963. **The raspberry crown borer (***Bembecia marginata***) and its control.** Oreg. Agric. Exp. Stn. Inform. Circ. 615, 6 p.
487. Rumsey, W. E. 1919. **Control of peach tree borers.** Am. Fruit Growers 39(3):6.
488. Russell, W. G. 1968. **A medium for laboratory rearing of the peach tree and lesser peach tree borers.** J. Econ. Entomol. 61:1450-1451.
489. Russell, W. G. and W. W. Stanley. 1969. **Seasonal life history and control of peach tree borer, Sanninoidea exitiosa (Say), in Tennessee.** J. Tenn. Acad. Sci. 44(3):85-91.
490. Ryan, H. J. 1928. **County horticultural commissioners' notes: Sycamore borer damages avocado.** Calif. Dep. Agric. Mon. Bull. 17(11):624.
491. Sanderson, E. D. 1921. **Insect pests of farm, garden, and orchard.** 2d ed. rev. and enl., p. 353, 403, 418, 575. John Wiley and Sons, N. Y.
492. Sarai, D. S. 1969. **Effect of burial of grape root borer pupae on adult emergence.** J. Econ. Entomol. 62:1507-1508.
493. Sarai, D. S. 1972. **Seasonal history and effect of soil moisture on mortality of newly hatched larvae of the grape root borer in Southern Missouri.** J. Econ. Entomol. 65:182-184.
494. Saunders, L. G. 1942. **Notes: The raspberry root borer in Saskatchewan.** Can. Entomol. 74:19.
495. Saunders, W. 1871. **On the larva of the peach-borer.** Can. Entomol. 3:22-23.
496. Saunders, W. 1872. **Hints to fruit growers.** Can. Entomol. 4:133-134.
497. Saunders, W. 1872. **Insects injurious to the currant and gooseberry,** p. 381-383. Ont. Entomol. Soc. Rep. for 1871.
498. Saunders, W. 1880. **Notes on various insects,** p. 76-77. Ont. Entomol. Soc. Rep. for 1879.
499. Saunders, W. 1881. **The legged maple borer —** *Aegeria acerni.* Can. Entomol. 13:69-70.
500. Saunders, W. 1882. **Popular papers on entomology,** p. 20-22. Ont. Entomol. Soc. Rep. for 1882.
501. Saunders, W. 1883. **Annual address of the president of the Entomological Society of Canada.** Can. Entomol. 15:187-189.
502. Savage, E. F., and B. O. Fry. 1955. **Peach tree borer control made easier.** Ga. Exp. Stn. Res. News 5:5.
503. Savage, E. F. and R. A. Hayden. 1962. **Peach tree borer control now possible.** Ga. Agric. Res. 3(3):6-7.
504. Savos, M. G. 1975. **The dogwood borer.** Conn. Univ. Coop. Ext. Serv. Bull. 79, 1 p.
505. Say, T. 1823. **An account of the insects so destructive to the peach tree.** J. Acad. Nat. Sci. Phila. 3:216-221.
506. Schaefers, G. A. 1974. **Raspberry crown borer: Control in relation to period of egg hatch.** J. Econ. Entomol. 67:451-452.
507. Schaffner, J. V., Jr. 1959. **Microlepidoptera and their parasites reared from field collections in the northeastern U. S.,** p. 41. U. S. Dep. Agric. Misc. Publ. 767, 97 p.
508. Schread, J. C. 1956. **Dogwood borer** *Thamnosphecia scitula* **(Harr.).** Conn. Agric. Exp. Stn. Circ. 199, 4 p.
509. Schread, J. C. 1957. **The dogwood borer** *Thamnosphecia scitula.* Gard. J. 7(2):49.
510. Schread, J. C. 1965. **Dogwood borer,** *Thamnosphecia scitula* **(Harr.).** Conn. Agric. Exp. Stn. Circ. 199. rev. 3 p.
511. Schread, J. C. 1971. **Control of borers in trees and woody ornamentals.** Conn. Agric. Exp. Stn. Circ. 241, 11 p.
512. Schuder, D. L. 1957. **Tree borers and effective control measures,** p. 98-104. *In* Proc. 33rd Natl. Shade Tree Conf.
513. Seaver, F. J. 1916. **Borers infesting the ash.** J. N. Y. Bot. Gard. 17:95-97.
514. Severson, J. G. 1975. **Borer control in urban areas.** Weeds, Trees and Turf. 14(10):31-32.
515. Sharp, J. L., J. R. McLaughlin, J. M. Stanley and J. Jones. 1976. **Electrocutor grid traps vs. sticky traps for capturing** *Synanthedon pictipes* **and Sanninoidea exitiosa.** J. Ga. Entomol. Soc. 11:217-220.
516. Shenefelt, R. D. and D. M. Benjamin. 1955. **Insects of Wisconsin forests,** p. 62. Wisc. Agric. Coll. Exp. Stn. and Wisc. Conservation Dep. Circ. 500, 110 p.
517. Siegler, E. H. and L. Brown. 1927. **Preliminary experiments in the application of paradichlorobenzene in liquid form against the peach tree borer.** J. Econ. Entomol. 20:701-702.
518. Siegler, E. H. and L. Brown. 1929. **Digest of additional experiments in the application of paradichlorobenzene in solution against the peach tree borer.** J. Econ. Entomol. 22:217-221.
519. Skelton, T. E. and J. H. Cochran. 1957. **The peach tree borer,** *Sanninoidea exitiosa,* **in South Carolina.** Entomol. Soc. Am. Bull. 3(3):38-39.
520. Skinner, H. 1903. **A new sesiid.** Entomol. News 14:126.
521. Slate, W. L. 1945. **Progress of the station's entomology work,** p. 59-68. Conn. Agric. Exp. Stn. Bull. 484.
522. Slingerland, M. V. 1899. **The peach tree borer,** p. 155-233. Cornell Agric. Exp. Stn. Bull. 176.
523. Slingerland, M. V. 1901. **Further experiments against the peach-tree borer,** p. 191-196. Cornell Agric. Exp. Stn. Bull. 192.
524. Smith, C. F. 1943. **Experiments with the peach tree borer in North Carolina.** J. Econ. Entomol. 36:215-218.

525. Smith, C. F. 1944. **Peach tree borer control recommendations for North Carolina.** N. C. Agric. Coll. Ext. Circ. 277, 8 p.
526. Smith, C. F. 1945. **Reduced concentrations of ethylene dichloride for peachtree borer control.** J. Econ. Entomol. 38:500-501.
527. Smith, C. F. 1970. **Emergence of the peach tree borer in North Carolina.** J. Econ. Entomol. 63:1700-1701.
528. Smith, C. F. 1970. **Sexual activity and egg fertility of the peach tree borer.** J. Econ. Entomol. 63:1909-1910.
529. Smith, C. I. 1950. **Synanthedon saxifragae in California.** Pan-Pacific Entomol. 26:60.
530. Smith, C. N. 1966. **Insect colonization and mass production.** Academic Press. New York and London, 618 p.
531. Smith, E. H. 1951. **Control of peach tree borer and lesser peach tree borer in New York.** J. Econ. Entomol. 44:685-690.
532. Smith, E. H. 1951. **Peach tree borers — Orchard enemies.** Rural New Yorker 101(5742):394-400.
533. Smith, E. H. 1952. **Control of peach tree borer and lesser peach tree borer.** J. Econ. Entomol. 45:611-615.
534. Smith, E. H. 1955. **Further studies on the ovicidal action of parathion to eggs of the peach tree borer.** J. Econ. Entomol. 48:727-731.
535. Smith, E. H. 1961. **Control of the peach tree borer with Guthion, parathion and Thiodan.** J. Econ. Entomol. 54:668-670.
536. Smith, E. H. 1962. **Control of the peach tree borer on young peach trees by a treatment before planting.** J. Econ. Entomol. 55:294-297.
537. Smith, E. H. 1962. **Pre-plant treatment — A new innovation in peach tree borer control.** N. Y. State Hortic. Soc. Proc. 107:174-176.
538. Smith, E. H. 1963. **Control of the peach tree borer on young peach trees by preplant treatment with DDT, dieldrin, and endosulfan.** J. Econ. Entomol. 56:463-465.
539. Smith, E. H. 1965. **Laboratory rearing of the peach tree borer and note on its biology.** J. Econ. Entomol. 58:228-236.
540. Smith, E. H. and A. W. Avens. 1954. **The ovicidal action of parathion in control of the peach tree borer.** J. Econ. Entomol. 47:912-917.
541. Smith, E. H. and R. W. Harris. 1952. **Influence of tree vigor and winter injury on the lesser peach tree borer.** J. Econ. Entomol. 45:607-610.
542. Smith, E. H. and E. H. Salkeld. 1965. **The role of esterases in parathion poisoning of eggs of the large milkweed bug.** J. Econ. Entomol. 58:188-195.
543. Smith, E. H. and A. C. Wagenknecht. 1956. **The occurrence of cholinesterase in eggs of the peach tree borer and large milkweed bug and its relationship to the ovicidal action of parathion.** J. Econ. Entomol. 49:777-783.
544. Smith, H. R., E. G. Richardson, C. E. Yonce and S. W. Jacklin. 1969. **A method of rearing the peach tree borer on artificial diet.** J. Econ. Entomol. 62:961-962.
545. Smith, J. B. 1890. **Catalogue of insects found in New Jersey,** p. 288-289. J. L. Murphy Publ. Co., Trenton, N. J., 486 p.
546. Smith, J. B. 1891. **Insects injurious to blackberry.** N. J. Agric. Coll. Exp. Stn. Spec. Bull. N., 12 p.
547. Smith, J. B. 1892. **Notes on blackberry borers and gall maker.** Insect Life 4:27-30.
548. Smith, J. B. 1892. **Notes of the year in New Jersey.** Insect Life 4:43-44.
549. Smith, J. B. 1892. **The squash borer,** *Melittia cucurbitae, and remedies therefor.* Insect life 4:30-31
550. Smith, J. B. 1896. **Peach insects.** Entomol. News 7:107-109.
551. Smith, J. B. 1897. **The peach borer.** Entomol. News 8:233-234.
552. Smith, J. B. 1898. **Notes on some structural peculiarities of** *Sanninoidea exitiosa* **Say.** Entomol. News 9:114-115.
553. Smith, J. B. 1898. **The peach borer, experiments with hydraulic cement.** N. Y. Agric. Exp. Stn. Bull. 128, 28 p.
554. Smith, J. B. 1911. **Insects injurious to the peach trees in New Jersey.** N. J. Agric. Exp. Stn. Bull. 234, 43 p.
555. Smith, J. S., C. E. Yonce, G. W. Edwards and C. R. Gentry. 1972. **Capturing male peachtree borers (Lepidoptera:Aegeriidae) in traps baited with virgin females.** J. Ga. Entomol. Soc. 7:229-233.
556. Smith, R. C. and E. G. Kelley. 1944. **The 13th or 1943 annual insect population summary of Kansas.** J. Kans. Entomol. Soc. 17:81-98.
557. Snapp, O. I. 1928. **Insects attacking the peach in the South and how to control them,** p. 1, 8-15, 29-31. U. S. Dep. Agric. Farmers Bull. 1557.
558. Snapp, O. I. 1928. **Paradichlorobenzene experiments in the South for peach-borer control.** U. S. Dep. Agric. Bull. 58, 39 p.
559. Snapp, O. I. 1932. **A new method of controlling the peach borer,** *Synanthedon exitiosa* **Say, with special application to young trees.** J. Econ. Entomol. 25:786-799.
560. Snapp, O. I. 1938. **Recent experiments with ethylene dichloride emulsion for peach borer control.** J. Econ. Entomol. 31:725-727.
561. Snapp, O. I. 1939. **Further studies with ethylene dichloride emulsion for the control of the peach borer.** J. Econ. Entomol. 32: 683-685.
562. Snapp, O. I. 1940. **The peach borer — how to prevent or lessen its ravages.** U. S. Dep. Agric. Farmers Bull. 1246. rev., 14 p.
563. Snapp, O. I. 1942. **The effect on peach trees of ethylene dichloride emulsion as used for peach tree borer control.** J. Econ. Entomol. 35:962.
564. Snapp, O. I. 1943. **Propylene dichloride for peachtree borer control.** J. Econ. Entomol. 36:765-768.
565. Snapp, O. I. 1944. **The effect on peach trees of ethylene dichloride used for control of the peachtree borer.** J. Econ. Entomol. 37:47-51.
566. Snapp, O. I. 1945. **Propylene dichloride for peachtree borer control: second report.** J. Econ. Entomol. 38:419-422.
567. Snapp, O. I. 1950. **DDT and some of the newer insecticides for control of peach tree borers.** J. Econ. Entomol. 43:315-318.
568. Snapp, O. I. 1952. **Injury to peach trees from propylene dichloride.** J. Econ. Entomol. 45:890.
569. Snapp, O. I. 1952. **Treatment of peach nursery stock to prevent infestation by peach tree borer.** J. Econ. Entomol. 45:546.
570. Snapp, O. I. 1954. **Experiments on control of Georgia peach pests in 1953.** J. Econ. Entomol. 47:909-912.

571. Snapp, O. I. 1955. **Peach insect investigations at Fort Valley, Georgia, during 1954.** J. Econ. Entomol. 48:734-736.
572. Snapp, O. I. 1958. **Trunk sprays for control of the peach tree borer.** J. Econ. Entomol. 51:557-558.
573. Snapp, O. I. 1961. **Treatment of peach nursery stock to prevent infestation by the peach tree borer.** J. Econ. Entomol. 54:400.
574. Snapp, O. I. 1962. **Peach tree borer experiments in peach orchards.** J. Econ. Entomol. 55:418-419.
575. Snapp, O. I. and H. S. Swingle. 1929. **Results of further investigations with paradichlorobenzene around peach trees with special reference to injury.** J. Econ. Entomol. 22:782-785.
576. Snapp, O. I. and H. S. Swingle. 1930. **Preliminary report on paradichlorobenzene solutions for the control of the lesser peach borer,** *Aegeria pictipes* **G. & R.** J. Econ. Entomol. 23:636-638.
577. Snapp, O. I. and J. R. Thomson. 1932. **Comparativeness of fall and spring application of paradichlorobenzene for peach borer control.** J. Econ. Entomol. 25:136-137.
578. Snapp, O. I. and J. R. Thomson. 1934. **Further experiments in the control of the peach borer on nursery stock and orchard trees.** J. Econ. Entomol. 27:771-779.
579. Snapp, O. I. and J. R. Thomson. 1936. **Experiments with new materials to control peach borer.** J. Econ. Entomol. 29:1088-1092.
580. Snapp, O. I. and J. R. Thomson. 1937. **Flight and movement of peach borer moths.** J. Econ. Entomol. 30:215.
581. Snapp, O. I. and J. R. Thomson. 1943. **Life history and habits of the peachtree borer in the southeastern states.** U. S. Dep. Agric. Tech. Bull. 854, 24 p.
582. Solomon, J. D. 1969. **Woodpecker predation on insect borers in living hardwoods.** Ann. Entomol. Soc. Am. 62:1214-1215.
583. Solomon, J. D. 1975. **Biology of an ash borer,** *Podosesia syringae,* **in green ash in Mississippi.** Ann. Entomol. Soc. Am. 68:325-328.
584. Solomon, J. D. 1977. **Frass characteristics for identifying insect borers (Lepidoptera:Cossidae and Sesiidae;Coleoptera: Cerambycidae) in living hardwoods.** Can. Entomol. 109:295-303.
585. Solomon, J. D. and L. P. Abrahamson. 1972. **Hardwood nursery insects,** p. 28-33. Proc. Southeast. Area For. Tree Nurseymen's Conf. 252 p.
586. Solomon, J. D., J. R. Cook, F. L. Oliveria and T. H. Filer. 1976. **Insect and canker disease impact in cottonwood nurseries.** *In* Proc. Symp. Eastern Cottonwood and Related Species (1976), p. 301-307.
587. Solomon, J. D. and R. C. Morris. 1966. **Clearwing borer in red oaks.** USDA For. Serv. Res. Note SO-39, 3 p., South. For. Exp. Stn., New Orleans, La.
588. Solomon, J. D. and R. C. Morris. 1971. **Woodpeckers in the ecology of southern hardwood borers.** Tall Timbers Conf. on Ecol. Animal Control by Habitat Manage. 2 (1970), 309-315. Tall Timbers Res. Stn., Tallahassee, Fla.
589. Somes, M. P. 1916. **Some insects of** *Solanum carolinense* **L. and their economic relations.** J. Econ. Entomol. 9:39-44.
590. Soraci, F. A. 1934. **Important nursery insects of New Jersey,** p. 37-39. N. J. Dep. Agric. Circ. 243, 62 p.
591. Soraci, F. A. 1941. **Important nursery insects of New Jersey,** p. 33-35. N. J. Dep. Agric. Circ. 326, 72 p.
592. Stallings, D. B. and J. R. Turner. 1944. **Notes on Lepidoptera.** J. Kans. Entomol. Soc. 17:29-31.
593. Stanley, W. W. and W. C. Pelton. 1944. **Get rid of the peach tree borer.** Tenn. Agric. Coll. Ext. Leafl. 72, 4 p.
594. Stear, J. R. 1933. **Investigation of naphthalene as a fumigant against the peach tree borer,** *Aegeria exitiosa* **Say, and sod insects, a progress report.** J. Econ. Entomol. 26:903-906.
595. Stein, J. D. 1976. **Insects: A guide to their collection, identification, preservation, and shipment.** USDA For. Serv. Res. Note RM-311, 12 p., Rocky Mtn. For. and Range Exp. Stn.
596. Stein, J. D. and P. C. Kennedy. 1972. **Key to shelterbelt insects in the northern Great Plains.** USDA For. Serv. Res. Pap. RM-85, 153 p., Rocky Mtn. For. and Range Exp. Stn.
597. Strecker, H. 1881. **Description of a new species of** *Trochilium.* Can. Entomol. 13:156.
598. Swaine, J. M. and C. B. Hutchings. 1926. **The more important shade tree insects of eastern Canada and their control,** p. 44. Can. Dep. Agric. Bull. 63, new series, 58 p.
599. Talerico, R. L. 1959. **How to separate damage by the European pine shoot moth, the Zimmerman pine moth, and the pitch mass borer.** USDA For. Serv., Lake States For. Exp. Stn. Tech. Note 571, 2 p., St. Paul, Minn.
600. Tapley, W. T. 1935. **The squash vine borer.** The Rural New Yorker 94(5336):503.
601. Taschenberg, E. F. 1953. **Currant borer control studies.** J. Econ. Entomol. 46:394-400.
602. Taschenberg, E. F. and A. W. Avens. 1964. **Field and laboratory studies on control of currant borer.** J. Econ. Entomol. 57:123-130.
603. Taylor, C. F. 1951. **Starking apples, 1950-51 storage test.** W. Va. Cumberland — Shanandoah Fruit Workers' Conf. Proc. 27:113.
604. Thomas, C. 1878. **Sixth report on noxious and beneficial insects of the State of Illinois,** p. 167-176. Trans. Dep. Agric. Ill. for 1877.
605. Thompson, B. G. 1926. **The peach and prune root-borer injurious to cherries.** J. Econ. Entomol. 19:779-780.
606. Thompson, B. G. 1927. **The Aegeriidae or clearwing moths occurring in Oregon,** p. 125-138. Ore. State Board Hortic. 19th Bienn. Rep.
607. Thompson, B. G. 1929. **Moths of the family Aegeriidae occurring in Oregon, with notes.** Pan-Pacific Entomol. 5:117-122.
608. Thompson, R. W. 1946. **Insects of the season in 1945 in Ontario.** Can. Insect Pest Rev. 24(1):39, 56, 89.
609. Townsend, C. H. T. 1890. **Some Michigan notes recorded.** Insect Life 2:42-43.
610. Townsend, C. H. T. 1891. **A preliminary account of some insects injurious to fruits.** New Mex. Agric. Exp. Stn. Bull. 3:13-15.
611. Townsend, C. H. T. 1893. **The possible and actual influence of irrigation on insect injury in New Mexico.** Insect Life 5:79-80.
612. Tumlinson, J. H., C. E. Yonce, R. E. Doolittle, R. R. Heath, C. R. Gentry and E. R. Mitchell. 1974. **Sex pheromones and reproductive isolation of the lesser peachtree borer and peachtree borer.** Sci. 185:614-616.
613. Tunnock, S. and A. Tagestad. 1973. **Incidence of wood borer activity in green ash windbreak plantings in North Dakota.** USDA For. Serv., Div. of State and Priv. For., Rep. 73-5, 13 p.
614. Underhill, G. H. 1935. **The pecan tree borer in dogwood.**

J. Econ. Entomol. 28:393-396.
615. Venobles, E. P. 1944. **The identity of a borer attacking peach trees in the Okawagan Valley of British Columbia.** Can. Entomol. 76:232.
616. Vogel, M. A. and R. B. Neiswander. 1933. **The lesser peach borer,** *Aegeria pictipes,* p. 51-54. Ohio Agric. Exp. Stn. Bull. 2.
617. Wallace, L. E. 1956. **Control of the raspberry root borer.** J. Econ. Entomol. 49:287.
618. Wallace, P. P. 1944. **Biology in control of the dogwood borer,** *Thamnosphecia (Synanthedon) scitula* **Harris,** p. 373-395. Conn. Agric. Exp. Stn. Bull. 488.
619. Wallace, P. P. 1946. **Commercial nursery control of the peach tree borer,** p. 83-89. Conn. Agric. Exp. Stn. Bull. 501.
620. Walsh, B. D. 1866. **Borers.** Pract. Entomol. 1:27-29.
621. Walsh, B. D. 1866. **On the insects, Coleopterous, Hymenopterous and Dipterous, inhabiting the galls of certain species of willows.** Proc. Entomol. Soc. Phila. 6:223-288.
622. Weaver, G. M. and H. R. Boyce. 1965. **Preliminary evidence of host resistance to the peach tree borer,** *Sanninoidea exitiosa.* Can. J. Pl. Sci. 45:293-294.
623. Webster, F. M. 1893. **Insects affecting the blackberry and raspberry,** p. 159-160. Ohio Agric. Exp. Stn. Bull. 45.
624. Webster, F. M. 1893. **Insects reared from black knot.** Entomol. News 4:294-296.
625. Webster, F. M. 1897. **The protective value of action, volitional or otherwise, in "protective mimicry."** J. N. Y. Entomol. Soc. 5:67-77.
626. Weed, C. M. 1886. **The currant stem borer.** Prairie Farmer 7:233-235.
627. Weed, C. M. 1889. **Our injurious Aegerians.** Am. Nat. 23:1106-1109.
628. Weed, H. E. 1891. **Work of the season in Mississippi.** Insect Life 4:34-36.
629. Weidman, R. H. and G. T. Robbins. 1947. **Attacks of pitch moth and turpentine beetle on pines in the Eddy Arboretum.** J. For. 45:428-433.
630. Weigel, C. A. and L. G. Baumhofer. 1948. **Handbook on insect enemies of flowers and shrubs,** p. 39, 56, 73, U. S. Dep. Agric. Misc. Publ. 626, 115 p.
631. Westwood, J. O. 1854. **Species of** *Trochilium* **and** *Cynips* **reared from American oak-galls.** Trans. Entomol. Soc. London, Ser. 2, 3:21.
632. Westwood, J. O. 1854. **The American oak-gall clear winged sphinx.** Gardner's Chron. and Agric. Gaz. 47:757-758.
633. Westwood, J. O. 1944. **Here are your garden enemies.** Home Gard. 4(5):47-58.
634. Whitcomb, W. D. and W. J. Garland. 1948. **Susceptibility of Cucurbitaceae to squash borer.** Am. Soc. Hortic. Sci. Proc. 51:445-447.
635. White, R. P. 1933. **Insects and diseases of rhododendron and azalea.** J. Econ. Entomol. 26:631-640.
636. Wiley, C. A. 1890. **Abundance of Aegeriidae.** Insect Life. 2:251-252.
637. Williams, F. X. 1909. **The butterflies and some moths of the Mt. Shasta Region.** Entomol. News 20:62-75.
638. Williams, F. X. 1909. **Notes on the life histories of certain wood-boring Lepidoptera.** Entomol. News 20:58-62.
639. Wong, T. T. Y. and J. A. Burnside. 1975. **Copulatory response of gamma irradiated adult male lesser peach tree borers.** Environ. Entomol. 4:601-602.
640. Wong, T. T. Y. and M. L. Cleveland. 1968. **Seasonal distribution of the lesser peach tree borer in southern Indiana.** J. Econ. Entomol. 61:1674-1677.
641. Wong, T. T. Y. and M. L. Cleveland. 1970. **Fluorescent powder for marking deciduous fruit moths for studies of dispersal.** J. Econ. Entomol. 63:338-340.
642. Wong, T. T. Y. and M. L. Cleveland. 1972. **Recovery of male moths of the lesser peachtree borer in a peach orchard.** Environ. Entomol. 1:344-347.
643. Wong, T. T. Y., M. L. Cleveland and D. G. Davis. 1969. **Sex attraction and mating of lesser peach tree borer moths.** J. Econ. Entomol. 62:789-792.
644. Wong, T. T. Y. and D. G. Davis. 1975. **Lesser peachtree borer: The effect of temperature and humidity on egg development.** Environ. Entomol. 4:1014.
645. Wong, T. T. Y., H. Kamasaki, R. E. Dolphin, M. L. Cleveland, D. F. Ralston, D. G. Davis and T. E. Mouzin. 1971. **Distribution and abundance of the lesser peachtree borer on Washington Island, Wisconsin.** J. Econ. Entomol. 64:879-882.
646. Wong, T. T. Y., H. Kamasaki, R. E. Dolphin, D. G. Davis, T. E. Mouzin, D. T. Ralston and J. A. Burnside. 1972. **Mass trapping of male lesser peachtree borer moths with virgin-female traps on Washington Island, Wisconsin, 1970.** J. Econ. Entomol. 65:1034-1039.
647. Woodside, A. M. 1952. **Control of the pear borer in apple trees.** J. Econ. Entomol. 45:98-101.
648. Woodside, A. M. 1952. **The apple bark borer (***Thamnosphecia pyri***).** Va. Agric. Exp. Stn. Bull. 452, 16 p.
649. Wooley, P. H. 1964. **Mites, apple maggot, and peach tree borers: procedures for control.** Mich. State Hortic. Soc. Annu. Rep. 93:99-105.
650. Worth, J. 1823. **An account of the insect so destructive to the peach tree.** J. Acad. Nat. Sci. Phila. 3:216-221.
651. Worthley, H. N. and H. M. Steiner. 1942. **Injury from peachtree borer treatments.** J. Econ. Entomol. 35:102-103.
652. Wylie, W. D. 1954. **Controlling of peach tree borers.** Ark. Farm Res. 3(3):4.
653. Wylie, W. D. 1956. **Trunk sprays for peach tree borer control.** J. Econ. Entomol. 49:574.
654. Wylie, W. D. 1957. **Single application sprays for peach tree borer control.** Entomol. Soc. Am. Bull. 3(3):38.
655. Wylie, W. D. 1958. **Single application trunk sprays for control of the peachtree borer.** Ark. Agric. Exp. Stn. Bull. 599, 24 p.
656. Wylie, W. D. 1968. **Chemical control of peach tree borer in Arkansas — Dursban looks promising.** Down to Earth 24(3):11-14.
657. Wylie, W. D. 1970. **The raspberry crown borer — a serious pest of blackberries.** Ark. Farm Res. 19(6):6.
658. Wylie, W. D. and C. J. Westbrook. 1957. **Peach tree borer control.** Ark. Farm Res. 6(5):3-4.
659. Yonce, C. E. 1975. **Sex pheromones of the peachtree borer and lesser peachtree borer: Their potential use in future control programs,** p. 65-67. Proc. Annu. Conv. Natl. Peach Counc. 34th.
660. Yonce, C. E. and C. R. Gentry. 1970. **Bait for oriental fruit moth attracts lesser peach tree borer moths.** J. Econ. Entomol. 63:1976.
661. Yonce, C. E., C. R. Gentry, J. H. Tumlinson, R. E. Doolittle and D. G. Nielsen. 1976. **Lesser peachtree borer: Influence of trap height, substrates, concentration, and**

trap design on capture of male moths with females and with a synthetic pheromone. Environ. Entomol. 5:417-420.

662. Yonce, C. E., J. H. Tumlinson, C. R. Gentry and E. R. Mitchell. 1974. **Extraction and field bioassay of the sex pheromone of the lesser peachtree borer.** Environ. Entomol. 3:569-570.

663. Zimmerman, C. D. 1881. **Insects injurious to nursery stock and best methods of destroying them.** Gard. Mon. 22:238-240.

INDEX OF SPECIES

Albuna fraxini (Hy. Edwards) [*morrisoni* (Hy. Edwards), *fraxini vitriosa* Engelhardt] 55, 69, 191, 193, 226

Albuna pyramidalis (Walker) [*hylotomiformis* (Walker), *nomadaepennis* (Boisduval), *rubescens* (Hulst), *montana* Hy. Edwards, *tanaceti* Hy. Edwards, *vancouverensis* Hy. Edwards, *coloradensis* Hy. Edwards, *torva* Hy. Edwards, *beutenmuelleri* Skinner] 55, 57, 58, 69, 191, 193, 207, 214, 218, 222, 226, 237, 317, 357, 374, 520, 607, 637

Alcathoe carolinensis Engelhardt [*autumnalis* Engelhardt] 69, 96, 191, 193, 221, 226

Alcathoe caudata (Harris) [*caudatum walkeri* Neumoegen, *caudata annettella* Engelhardt] 67, 69, 191, 193, 215, 221, 226, 233, 237, 320, 342, 357, 374, 427, 471, 545

Alcathoe pepsioides Engelhardt [*pepsioides atra* Engelhardt, *pepsioides ferrugata* Engelhardt] 191, 193, 221, 226, 374

Alcathoe verrugo (Druce) [*verrugo corvinus* Engelhardt] 191, 193, 226

Calasesia coccinea (Beutenmuller) 61, 69, 191, 193, 226

Carmenta albociliata (Engelhardt) 191, 193, 219, 220, 226

Carmenta anthracipennis (Boisduval) [*sanborni* Hy. Edwards, *morula* (Hy. Edwards)] 55, 69, 191, 193, 215, 222, 224, 226, 237, 374, 385

Carmenta apache Engelhardt 191, 193, 226

Carmenta arizonae (Beutenmuller) 69, 191, 193, 226

Carmenta auritincta (Engelhardt) 191, 193, 219, 220, 226

Carmenta bassiformis (Walker) [*lustrans* (Grote), *aureopurpura* (Hy. Edwards), *bolli* (Hy. Edwards), *sexfasciata* (Hy. Edwards), *consimilis* (Hy. Edwards), *eupatorii* (Hy. Edwards), *imitata* (Hy. Edwards)] 54, 55, 56, 60, 69, 191, 193, 226, 237, 272, 310, 342, 357, 374, 419, 627

Carmenta corni (Hy. Edwards) [*infirma* (Hy. Edwards)] 54, 191, 193, 226, 374

Carmenta engelhardti Duckworth and Eichlin 190, 193

Carmenta giliae (Hy. Edwards) [*vitrina* (Neumoegen), *deceptiva* (Beutenmuller) *giliae woodgatei* Engelhardt] 55, 69, 191, 193, 226, 374, 410

Carmenta ithacae (Beutenmuller) 69, 191, 193, 226, 237, 357, 374

Carmenta mariona (Beutenmuller) 66, 69, 191, 193, 226

Carmenta mimuli (Hy. Edwards) [*torrancia* Engelhardt] 69, 191,193, 226

Carmenta odda Duckworth and Eichlin 193, 195

Carmenta ogalala Engelhardt 191, 193, 226

Carmenta phoradendri Engelhardt 191, 193, 226, 374

Carmenta prosopis (Hy. Edwards) 55, 59, 67, 69, 191, 193, 209, 214, 215, 223, 226

Carmenta pyralidiformis (Walker) [*nigella* (Hulst), *pyralidiformis aurantis* Engelhardt] 55, 69, 191, 193, 226, 237, 316, 342, 357, 374

Carmenta querci (Hy. Edwards) [*comes* (Heinrich)] 59, 67, 69, 191, 193, 209, 214, 226, 300, 374

Carmenta rubricincta (Beutenmuller) 71, 191, 193, 226

Carmenta subaerea (Hy. Edwards) 69, 191, 193, 211, 214, 226

Carmenta suffusata Engelhardt 193, 226

Carmenta tecta (Hy. Edwards) 69, 191, 193, 226

Carmenta texana (Hy. Edwards) [*wittfeldii* (Hy. Edwards)] 55, 69, 191, 193, 211, 214, 222, 226, 374

Carmenta verecunda (Hy. Edwards) [*nigra* Beutenmuller, *florissantella* (Cockerell), *hirsuta* (Engelhardt)] 55, 69, 148, 191, 193, 226

Carmenta welchelorum Duckworth and Eichlin 194

Carmenta wellerae Duckworth and Eichlin 192, 193

Cissuvora ampelopsis Engelhardt 191, 193, 226, 374

Euhagena emphytiformis (Walker) [*solituda* (Hy. Edwards)] 55, 69, 121, 191, 193, 218, 226

Euhagena nebraskae Hy. Edwards [*coloradensis* (Beutenmuller), *nebraskae mormoni* Engelhardt, *nebraskae intensa* Engelhardt] 69, 191, 193, 226

Hymenoclea palmii (Beutenmuller) 70, 191, 193, 226

Melittia calabaza Duckworth and Eichlin 193, 217

Melittia gloriosa Hy. Edwards [*superba* Barnes and Lindsey, *lindseyi* Barnes and Benjamin, *barnesi* Dalla Torre] 39, 40, 55, 64, 191, 193, 217, 218, 226, 374, 592, 606, 607

Melittia grandis (Strecker) [*beckeri* Druce, *grandis hermosa* Engelhardt] 64, 191, 193, 217, 226, 597

Melittia magnifica Beutenmuller 64, 191, 193, 217, 226

Melittia satyriniformis Hubner [*cucurbitae* (Harris), *ceto* (Westwood), *amoea* Hy. Edwards] 8, 9, 14, 64, 74, 98, 107, 113, 145, 175, 191, 193, 217, 226, 238, 283, 288, 304, 407, 314, 315, 316, 347, 356, 374, 378, 391, 392, 393, 401, 460, 485, 491, 507, 549, 556, 600, 608, 633, 634

Melittia snowii Hy. Edwards 55, 64, 191, 193, 217, 226, 374, 592

Osminia ruficornis (Hy. Edwards) [*minuta* (Hy. Edwards), *candescens* (Hy. Edwards), *marcia* (Druce)] 96, 191, 193, 208, 226

Palmia praecedens (Hy. Edwards) 110, 193, 210, 226

Paranthrene asilipennis (Boisduval) [*denudatum* (Harris), *vespipenne* (Herrich-Schaffer), *bombyciformis* (Walker), *championi* (Druce)] 54, 56, 62, 67, 69, 96, 179, 191, 193, 210, 214, 222, 226, 237, 357, 366, 374, 385, 402

Paranthrene dollii (Neumoegen) [*dollii castaneum* (Beutenmuller), *dollii fasciventris* Engelhardt] 1, 2, 3, 35, 58, 59, 60, 67, 69, 158, 179, 191, 193, 226, 236, 237, 357, 374, 397, 398, 399, 402, 411, 412, 582, 584, 585, 586, 588

Paranthrene fenestrata Barnes and Lindsey 40, 191, 193, 226

Paranthrene robiniae (Hy. Edwards) [*perlucida* (Busck), *robiniae palescens* Engelhardt] 55, 58, 59, 60, 67, 69, 120, 129, 179, 191, 193, 223, 226, 229, 335, 374, 404, 428, 468, 469, 606, 607, 637

Paranthrene simulans (Grote) [*palmii* (Hy. Edwards), *luggeri* (Hy. Edwards)] 35, 55, 57, 58, 59, 60, 67, 69, 96, 179, 191, 193, 213, 214, 216, 226, 237, 273, 297, 310, 327, 357, 365, 366, 374, 410, 414, 416, 419, 582, 584, 587, 588

Paranthrene tabaniformis (Rottemburg) [*asiliformis* (Denis & Schiffermuller), *tricincta* (Harris), *serratiformis* (Freyer), *denotata (Hy. Edwards), tricincta oslari* Engelhardt] 1, 22, 35, 55, 56, 58, 59, 60, 67, 69, 158, 166, 179, 191, 193, 210, 215, 226, 236, 237, 247, 290, 310, 337, 338, 340, 342, 343, 357, 374, 396, 399, 412, 428, 459, 545, 582, 584, 585, 588

Pennisetia marginata (Harris) [*pleciaeformis* (Walker), *odyneripennis* (Walker), *rubi* (Riley), *flavipes* (Hulst), *marginata albicoma* (Hulst)] 8, 9, 10, 15, 42, 54, 55, 56, 58, 59,

60, 67, 69, 95, 98, 108, 121, 127, 176, 191, 193, 207, 210, 214, 226, 229, 237, 240, 244, 254, 283, 290, 298, 310, 317, 319, 321, 339, 342, 357, 360, 363, 374, 378, 385, 396, 402, 455, 456, 457, 466, 486, 491, 494, 506, 545, 546, 547, 604, 606, 607, 608, 617, 623, 657

Penstemonia clarkei Engelhardt 191, 193, 226

Penstemonia dammersi Engelhardt [*brevifolia* Engelhardt] 191, 193, 226, 374

Penstemonia edwardsii (Beutenmuller) [*utahensis* (Beutenmuller)] 71, 191, 193, 224, 226, 374

Penstemonia hennei Engelhardt 191, 193, 226

Podosesia aureocincta Purrington and Nielsen 452

Podosesia syringae (Harris) [*longipes* (Moschler), *fraxini* (Lugger)] 5, 7, 26, 35, 43, 54, 57, 58, 59, 60, 67, 69, 94, 96, 177, 179, 191, 193, 207, 215, 216, 226, 229, 236, 237, 240, 241, 244, 252, 268, 278, 279, 280, 290, 310, 318, 327, 340, 341, 342, 357, 367, 370, 373, 374, 375, 385, 390, 396, 402, 405, 406, 412, 413, 414, 415, 416, 417, 418, 419, 421, 422, 423, 424, 425, 426, 428, 441, 444, 452, 473, 481, 511, 513, 514, 545, 582, 583, 584, 590, 591, 595, 596, 598, 604, 608, 613, 625, 630

Sannina uroceriformis Walker [*quinquecaudata* (Ridings), *uroceripennis* Boisduval] 7, 35, 43, 56, 59, 67, 69, 96, 191, 193, 203, 210, 214, 226, 237, 303, 310, 357, 374, 427, 462, 467, 472, 474, 584

Sesia apiformis (Clerck) [*crabroniformis* Denis and Schiffermuller] 7, 35, 54, 58, 59, 60, 63, 67, 69, 158, 179, 191, 193, 215, 225, 226, 229, 237, 310, 327, 335, 357, 374, 507, 545

Sesia tibialis (Harris) [*flavitibia* (Walker), *pacificum* (Hy. Edwards), *californicum* (Neumoegen), *minimum* (Neumoegen), *tibialis dyari* (Cockerell), *tibialis anonyma* (Strand), *tibialis melanoformis* Engelhardt] 35, 57, 58, 59, 60, 63, 67, 69, 129, 148, 158, 179, 191, 193, 225, 226, 229, 237, 290, 335, 357, 360, 374, 410, 428, 596, 606, 607

Synanthedon acerni (Clemens) [*acericolum* (Germadius), *tepperi* (Hy. Edwards), *acerni buscki* (Engelhardt)] 7, 35, 43, 49, 54, 58, 59, 60, 67, 69, 93, 94, 96, 97, 108, 109, 129, 144, 172, 179, 191, 193, 207, 209, 215, 226, 230, 231, 236, 237, 240, 253, 279, 280, 284, 310, 313, 319, 337, 340, 342, 357, 366, 370, 373, 374, 385, 396, 419, 459, 464, 465, 466, 470, 499, 500, 501, 504, 545, 598, 604, 627, 636

Synanthedon acerrubri Englehardt 35, 179, 191, 193, 219, 226, 357, 374

Synanthedon albicornis (Hy. Edwards) 54, 55, 59, 67, 69, 179, 191, 193, 207, 226, 237, 310, 357, 374, 467, 545, 607

Synanthedon alleri (Engelhardt) 191, 193, 226

Synanthedon arctica (Beutenmuller) 65, 66, 69, 191, 193, 202, 226

Synanthedon arizonensis (Beutenmuller) 61, 72, 191, 193, 226

Synanthedon arkansasensis Duckworth and Eichlin 190, 195

Synanthedon bibionipennis (Boisduval) [*rutilans* (Hy. Edwards), *lupini* (Hy. Edwards), *perplexa* (Hy. Edwards), impropria (Hy. Edwards), aureola (Hy. Edwards), *neglecta* (Hy. Edwards), *washingtonia* (Hy. Edwards), *hemizoniae* (Hy. Edwards), *madariae* (Hy. Edwards)] 10, 17, 51, 55, 56, 57, 58, 59, 67, 69, 124, 149, 187, 188, 191, 193, 207, 214, 215, 222, 223, 226, 229, 237, 283, 310, 374, 403, 467, 480, 606, 607, 637

Synanthedon bolteri (Hy. Edwards) 35, 55, 67, 69, 179, 191, 193, 211, 214, 226, 237, 357

Synanthedon canadensis Duckworth and Eichlin 190, 193

Synanthedon castaneae (Busck) 35, 118, 179, 191, 193, 219, 226, 357, 374

Synanthedon chrysidipennis (Boisduval) [*tacoma* (Beutenmuller), *chrysidipennis wallowa* (Engelhardt)] 61, 69, 191, 193, 214, 217, 222, 226, 374, 606, 607

Synanthedon culiciformis (Linnaeus) [*culciformis americana* (Beutenmuller)] 57, 58, 59, 60, 67, 69, 129, 179, 191, 193, 202, 218, 226, 229, 237, 335, 374, 606, 607

Synanthedon decipiens (Hy. Edwards) [*imperfecta* (Hy. Edwards), *nicotianae* (Hy. Edwards), *rubristigma* (Kellicott)] 55, 57, 58, 59, 60, 67, 69, 191, 193, 207, 226, 237, 300, 342, 343, 357, 374

Synanthedon dominicki Duckworth and Eichlin 190, 193

Synanthedon exitiosa (Say) [*persica* (Thomas), *pepsidiformis* (Hubner), *xiphiaeformis* (Boisduval), *graefi* (Hy. Edwards), *opalescens* (Hy. Edwards), *exitiosa fitchii* (Hy. Edwards), *pacifica* (Riley), *exitiosa luminosa* (Neumoegen), *exitiosa edwardsii* (Beutenmuller), *graefi barnesii* (Beutenmuller)] 7, 10, 11, 12, 13, 18, 23, 24, 27, 28, 30, 31, 32, 34, 37, 38, 41, 42, 44, 47, 50, 54, 55, 57, 58, 59, 62, 63, 67, 68, 69, 75, 76, 77, 78, 79, 80, 81, 86, 87, 90, 92, 96, 98, 99, 102, 103, 104, 108, 121, 122, 123, 125, 126, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 150, 153, 154, 157, 159, 160, 161, 167, 168, 169, 170, 171, 173, 175, 178, 184, 185, 186, 189, 191, 193, 197, 201, 205, 207, 210, 214, 215, 222, 226, 227, 228, 229, 234, 235, 237, 239, 240, 244, 245, 248, 249, 250, 251, 256, 258, 262, 263, 265, 266, 275, 276, 277, 279, 282, 285, 286, 287, 292, 293, 294, 295, 296, 305, 306, 310, 311, 322, 323, 324, 325, 326, 327, 328, 330, 333, 340, 342, 345, 346, 350, 351, 355, 357, 359, 361, 362, 364, 368, 369, 372, 373, 374, 376, 379, 380, 381, 382, 383, 384, 385, 386, 389, 395, 402, 405, 411, 412, 414, 416, 419, 420, 427, 429, 432, 433, 434, 435, 436, 437, 438, 439, 440, 449, 454, 458, 461, 468, 476, 479, 482, 483, 487, 488, 489, 491, 495, 496, 502, 503, 505, 507, 515, 517, 518, 519, 522, 523, 524, 525, 526, 527, 528, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 542, 543, 544, 548, 550, 551, 552, 553, 554, 555, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 577, 578, 579, 580, 581, 584, 593, 594, 604, 605, 606, 607, 609, 610, 611, 612, 615, 619, 620, 622, 627, 631, 633, 637, 649, 650, 651, 652, 653, 655, 656, 658, 659, 660

Synanthedon fatifera Hodges 191, 193, 308, 333, 374, 419

Synanthedon fulvipes (Harris) 58, 69, 191, 193, 226, 239, 290, 357

Synanthedon geliformis (Walker) 35, 58, 69, 191, 193, 207, 211, 226, 374, 394

Synanthedon helenis (Engelhardt) 191, 193, 226

Synanthedon kathyae Duckworth and Eichlin 193, 195

Synanthedon millinipennis (Boisduval) [*artemisiae* (Hy. Edwards), *seneciodes* (Hy. Edwards)] 55, 57, 58, 69, 116, 179, 191, 193, 207, 214, 226, 301, 335, 637, 638

Synanthedon novaroensis (Hy. Edwards) [*piceae* (Dyar), *brunneri* (Busck)] 55, 58, 69, 111, 112, 119, 129, 179, 191, 193, 204, 207, 226, 229, 335, 606, 607, 637

Synanthedon pictipes (Grote and Robinson) [*inusitata* (Hy. Edwards)] 7, 9, 10, 16, 19, 20, 21, 25, 28, 33, 35, 50, 54, 55, 59, 67, 69, 82, 83, 84, 85, 86, 87, 89, 91, 96, 114, 115, 117, 125, 126, 128, 136, 137, 146, 147, 162, 179, 180, 181, 182, 183, 191, 193, 196, 197, 198, 207, 215, 219, 226, 236, 237, 249, 250, 251, 255, 259, 260, 261, 269, 270, 272, 279, 286, 296, 310, 311, 312, 327, 331, 332, 333, 337, 340, 342, 346, 348, 349, 352, 354, 357, 371, 372, 373, 374, 376, 377, 378, 385, 387, 388, 395, 402, 405,

407, 416, 419, 420, 430, 431, 450, 453, 475, 476, 477, 478, 482, 483, 488, 515, 531, 533, 540, 541, 557, 570, 571, 576, 595, 612, 616, 624, 627, 639, 640, 641, 642, 643, 644, 645, 646, 649, 659, 660, 661, 662

Synanthedon pini (Kellicott) 35, 58, 59, 60, 67, 69, 129, 132, 179, 191, 193, 201, 210, 215, 226, 231, 237, 244, 267, 310, 336, 337, 338, 340, 357, 374, 402, 428, 598, 599

Synanthedon polygoni (Hy. Edwards) [*fragariae* (Hy. Edwards), *helianthi* (Hy. Edwards), *archillae* (Hy. Edwards), *eremocarpi* (Hy. Edwards), *meadii* (Hy. Edwards), *orthocarpi* (Hy. Edwards), *praestans* (Hy. Edwards), *behrensii* (Hy. Edwards), *animosa (Hy. Edwards), elda* (Hy. Edwards), *fragariae semipraestans* (Cockerell)] 55, 56, 57, 58, 69, 96, 148, 191, 193, 207, 209, 210, 211, 212, 214, 218, 226, 374, 607, 637, 638

Synanthedon proxima (Hy. Edwards) [*modesta (Kellicott)*] 35, 43, 191, 193, 207, 226, 342

Synanthedon pyri (Harris) [*koebelei* (Hy. Edwards)] 45, 47, 54, 55, 58, 59, 60, 67, 69, 96, 101, 191, 193, 207, 215, 226, 233, 237, 240, 289, 290, 292, 294, 310, 337, 340, 344, 357, 374, 385, 396, 402, 427, 467, 483, 545, 603, 604, 627, 628, 647, 648

Synanthedon refulgens (Hy. Edwards) [*marica* (Beutenmuller), *seminole* (Beutenmuller)] 58, 62, 69, 96, 191, 193, 207, 226, 411

Synanthedon resplendens (Hy. Edwards) 55, 105, 191, 193, 207, 226, 327, 374, 394, 490

Synanthedon rhododendri (Beutenmuller) 35, 71, 93, 94, 97, 98, 99, 174, 191, 193, 226, 232, 237, 280, 281, 327, 357, 358, 374, 408, 409, 412, 511, 590, 591, 630, 635

Synanthedon richardsi (Engelhardt) 191, 193, 226

Synanthedon rileyana (Hy. Edwards) [*brunneipennis* (Hy. Edwards), *hyperici* (Hy. Edwards), *austini* (Engelhardt)] 55, 69, 96, 191, 193, 226, 237, 357, 374, 419, 589, 607

Synanthedon rubrofascia (Hy. Edwards) 35, 59, 69, 191, 193, 207, 226, 237, 325, 329, 357, 374, 419

Synanthedon sapygaeformis (Walker) [*floridensis* (Grote)] 35, 55, 58, 59, 60, 67, 69, 191, 193, 207, 226, 271, 374, 396, 400

Synanthedon saxifragae (Hy. Edwards) [*henshawii* (Hy. Edwards)] 55, 57, 58, 69, 191, 193, 207, 210, 226, 239, 529, 607

Synanthedon scitula (Harris) [*gallivorum* (Westwood), *hospes* (Walsh), *corusca* (Hy. Edwards), *aemula* (Hy. Edwards)] 4, 7, 35, 55, 57, 58, 59, 60, 67, 69, 96, 151, 179, 191, 193, 205, 207, 208, 211, 214, 226, 236, 237, 243, 290, 298, 302, 310, 327, 333, 342, 352, 357, 358, 374, 396, 402, 404, 408, 409, 412, 414, 419, 428, 442, 443, 446, 447, 508, 509, 510, 511, 512, 521, 614, 618, 621, 630, 631, 632

Synanthedon sequoiae (Hy. Edwards) [*superba* (Hy. Edwards), *pinorum* (Behrens)] 48, 57, 58, 59, 60, 67, 69, 106, 110, 111, 129, 130, 179, 191, 193, 207, 226, 229, 242, 310, 334, 335, 374, 419, 428, 451, 606, 607, 629, 637, 638

Synanthedon sigmoidea (Beutenmuller) 35, 59, 60, 69, 179, 191, 193, 226, 237, 357, 374

Synanthedon tipuliformis (Clerck) 9, 53, 54, 60, 67, 69, 73, 87, 88, 99, 108, 124, 125, 127, 131, 152, 154, 155, 156, 163, 164, 165, 176, 191, 193, 201, 214, 215, 226, 229, 233, 237, 240, 244, 245, 264, 287, 291, 292, 309, 310, 342, 357, 360, 362, 366, 374, 385, 402, 405, 420, 427, 445, 491, 497, 498, 545, 595, 601, 602, 604, 606, 607, 609, 620, 626, 627

Synanthedon viburni Engelhardt 35, 191, 193, 219, 226, 257, 333, 357, 374

Vitacea admiranda (Hy. Edwards) 55, 57, 58, 69, 191, 193, 208, 226, 310

Vitacea cupressi (Hy. Edwards) 58, 69, 191, 193, 207, 226

Vitacea polistiformis (Harris) [*seminole* (Neumoegen), *polistiformis huron* Engelhardt] 6, 29, 36, 52, 54, 60, 67, 69, 96, 100, 143, 191, 193, 199, 215, 226, 233, 237, 240, 293, 310, 340, 374, 385, 420, 427, 448, 463, 479, 492, 493, 604

Vitacea scepsiformis (Hy. Edwards) 58, 69, 191, 193, 207, 226, 237, 357, 374

Zenodoxus canescens Hy Edwards [*canescens sidae* Engelhardt] 55, 69, 191, 193, 226

Zenodoxus heucherae Hy. Edwards [*potentillae* Hy. Edwards] 55, 69, 191, 193, 226

Zenodoxus maculipes Grote and Robinson 55, 69, 191, 193, 226

Zenodoxus mexicanus Beutenmuller 69, 191, 193, 226

Zenodoxus palmii (Neumoegen) [*palmiana* (Dallas Torre), *wissadulae* Engelhardt, *palmii sphaeralceae* Engelhardt, *palmii incanae* Engelhardt] 191, 193, 223, 226, 374

Zenodoxus rubens Engelhardt [*canescens bexari* Engelhardt] 191, 193, 226

Zenodoxus sidalceae Engelhardt 191, 193, 226, 374

Solomon, J. D. and M. E. Dix

1979. Selected bibliography of the clearwing borers (sesiidae) of the United States and Canada. U.S. Dep. Agric. For. Serv. Gen. Tech. Rep. SO-22, 18 p. South. For. Exp. Stn., New Orleans, La.

Covers the major works on the clearwing borers and is indexed to species to aid those interested in particular species.